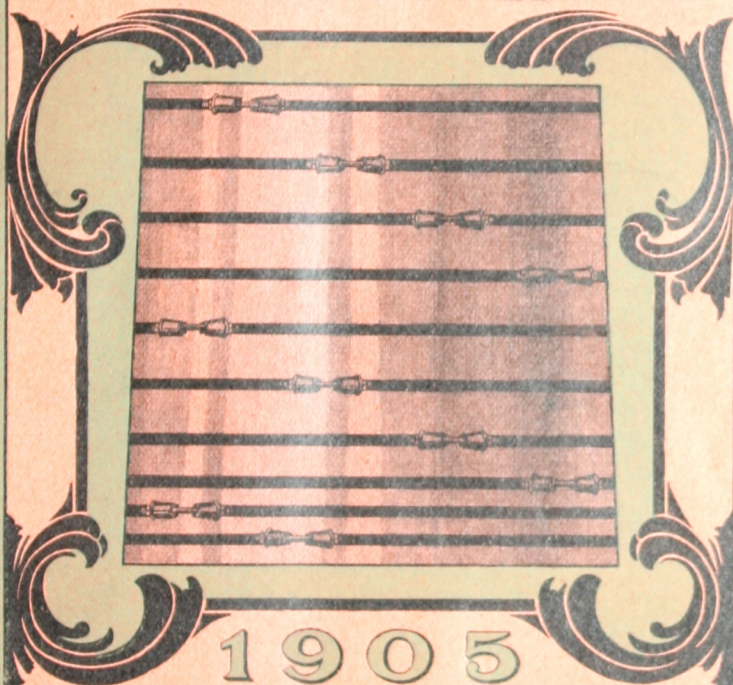


1423-9

W.E. CALDWELL CO.

INCORPORATED



1905

MANUFACTURERS OF ALL KINDS OF

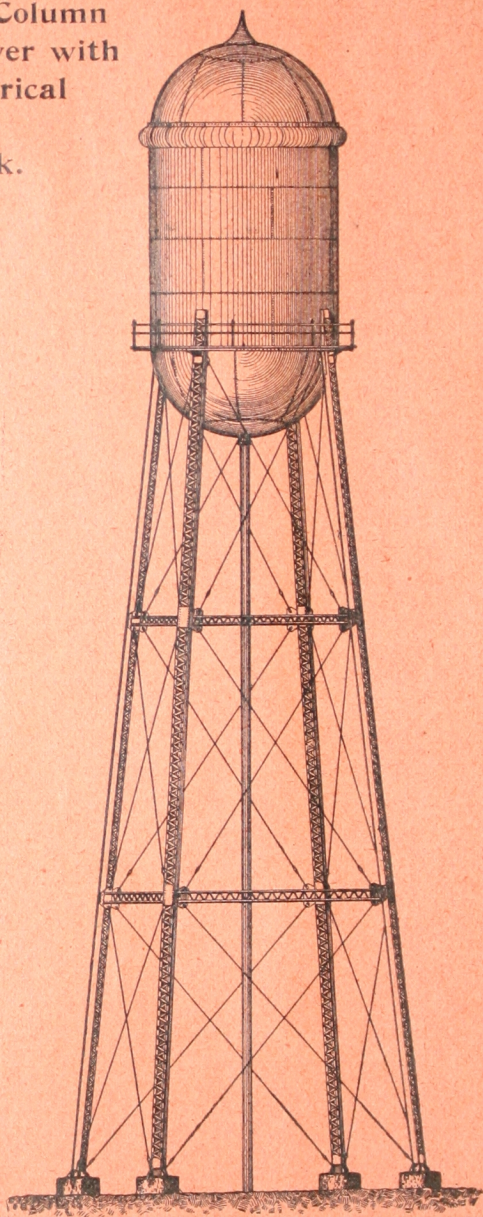
TANKS TOWERS AND TUBS

LARGE WATER TANKS A SPECIALTY

HIGH GRADE WORK

LOUISVILLE, KY.

Latticed Column
Steel Tower with
Hemispherical
Bottom
Steel Tank.



We build these towers of any required height up to 150 feet with tanks of 30,000, 40,000, 50,000, 60,000, 75,000, 100,000, 150,000 and 200,000 gallons capacity.

W. E. CALDWELL, PRESIDENT.
H. B. WINTERSMITH, VICE-PRES.
R. E. MILLER, SECRETARY.

1905.

ESTABLISHED 1877.
INCORPORATED 1892.

TWENTY-SEVEN YEARS' EXPERIENCE.

For twenty-seven years we have been building Tanks and Towers, and building them, we believe, a little bit better than anybody else and a great deal better than the average manufacturer. If you don't know this to be a fact, and are interested in learning where you can buy either the best Tank or the best Tower you can get for the least money, we can prove it to you by reference to some of your friends and neighbors. We can do this no matter where you are, because our goods go to every nook and corner of this country, and to some others besides—as Canada, Cuba, Mexico, Central and South America—and if we didn't make a good Tank and Tower this wouldn't be so, any more than we could afford to send our Catalogues broadcast over such a vast territory, which we are doing every year. That is why it takes so many to go around. The fact that we send out a million of these Catalogues in a year is a pretty good indication of the extent of our business, for this means an expense of ten thousand dollars for postage alone, and when another ten thousand is added for the Catalogues it will be seen that our sales must be hundreds of thousands of dollars to justify such an expenditure as this.

This Catalogue, so far as Tanks are concerned, is meant to be just a price list of the standard sizes of plain water Tanks. It is too small to enable us to describe or illustrate the various kinds of Tanks used for special purposes, but we build every kind of a Tank that is known, including Acid and Chemical Tanks, Stuff Chests, etc., for Paper Mills; Vats, Leaches and Drums for Tanneries; Generators and Storage Tanks for Cider and Vinegar Plants; Fermenters, Mash Tubs and Whiskey Tanks for Distilleries; Mining Tanks, Plating Tanks, etc.

We are particularly well qualified to construct any Tanks of this character on account of the many years that we have been doing it and because a great many such Tanks have special iron work used with them that we can get out right here and fit it together, as we have a complete Foundry and Machine Shop equipped with all modern tools and appliances.

We estimate on such Tanks put up at destination and completed ready for use, when desired.

The designing and building of tank Towers is one of the principal parts of our business. We furnish these Towers with either wood or steel or galvanized iron Tanks. The latter, however, are used only for small sized jobs.

Our Towers are of several different types, as illustrated herein. The latticed column steel Tower, with steel Tank having a hemispherical bottom, is supplied only with Tanks of large capacity—30,000 gallons and over.

Our sectional steel Towers, (which are patented,) shown on pages 19, 21, 23, 25, 26, 28 and 30, are built for Tanks of any capacity from 1,000 up to and including 100,000 gallons. These Towers are constructed with either tubular or angle columns, the design otherwise being just the same. They have loosely mounted connections and are the cheapest to manufacture and the easiest to erect of any Tower on the market. Any ordinary mechanic can put one of these Towers up with common laborers. We have thousands of these structures in use. We have over 400 doing duty in the state of New York alone.

Where a cheaper Tower is wanted we build an All Wood structure or a Combined Wood and Iron Tower, as shown by cuts on pages 34 and 32. If customers want to furnish their own Tower, we supply plans and specifications for either of these two last mentioned styles, at a very small cost. It will be found cheaper in the long run, however, to intrust this kind of work to people like us, whose technical knowledge and mechanical experience in building such outfits to suit all sorts of conditions guarantee a safe and substantial job.

Don't hesitate to ask us for any sort of information you want about any kind of a Tank or Tower. We can help you, whatever your problem may be.

We have considerable other literature we shall be pleased to send upon application, such as a pamphlet on "The Construction of Tanks," a booklet of photo-engravings showing Tanks and Towers of various kinds and sizes erected for manufacturing plants, small towns, asylums and schools, parks, and plantations, private grounds, etc.; also a booklet of fac simile testimonial letters, a special galvanized tank catalogue, etc.

ID 89-39598 TCF

DIFFERENT TANK WOODS.

CYPRESS.

Cypress is everywhere recognized as the ideal wood for tank purposes. It is the most durable wood known and, being very straight grained, will warp and twist but little. It also shrinks and swells less than other woods, and it will not give off any taste or odor or color. For this reason it is especially suitable for cider and vinegar, fruit syrups, coloring dyes and other preparations that would be injured by any contamination from the wood.

Cypress Tanks are used almost exclusively for acids and chemicals, and for hot liquids, as nothing else will give as lasting service.

All of our Cypress is thoroughly kiln-dried or air-dried.

WHITE PINE.

White Pine is used almost altogether for Water Tanks, where something cheaper than Cypress is wanted, and for Brine Tanks in Pickle Works. This lumber has more knots than Cypress, but our tank plank is cut to our own specifications, and only thoroughly sound and tight knots are accepted, and these must have no black rims, so the value of the lumber is in no wise impaired for tank purposes. This material, when carefully selected stock, such as ours, is used, makes a good, serviceable tank that will last for years.

Our White Pine is all air-dried.

YELLOW PINE.

Of late years the use of Yellow Pine for Tanks has increased to a large extent, and particularly for Acid Tanks, Stuff Chests, etc., for Paper Mill work. While Cypress gives better results for hot acids, Yellow Pine is superior to it for cold or warm acids. It is also extensively employed in the manufacture of the ordinary Water Tank, and especially for large Tanks, for which stock required can be obtained more easily than in any other kind of lumber, and at a very little additional cost for lengths and thickness above the standard, which in Cypress and White Pine very considerably augments the cost.

We carry a large stock of Yellow Pine in lengths up to 30 feet, and in 2, 3, 4, 6 and 8 inch thicknesses.

The durability of Yellow Pine is fully equal to White Pine, and the grading of the lumber is just the same.

YELLOW POPLAR.

This wood, like Cypress, does not impart any taste, odor or color to liquids that come into contact with it.

Poplar is very close grained, and is used especially for tanks to hold medicines, whisky and other volatile liquids.

We are unusually careful and painstaking in making tanks for these purposes, knowing how important it is to have close, tight-fitting joints.

The quality of lumber employed is the same as in Cypress.

LIST PRICES OF ROUND TANKS FOR ALL PURPOSES.

CYPRESS OR WHITE PINE.

We use same List Prices, but give different discounts on Cypress and White Pine Tanks.

Gallons.	Inside Diameter. ft.in.	Inside Depth. ft.in.	Number of Hoops	Shipping Weight. lbs.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.	Gallons.	Inside Diameter. ft.in.	Inside Depth. ft.in.	Number of Hoops	Shipping Weight. lbs.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.
158	3.0	3.0	3	220	\$10 00	\$2 40	1127	8.0	3.0	3	754	\$24 20	\$2 65
180	3.0	3.5	4	256	11 00	2 69	1294	8.0	3.5	4	840	27 00	3 45
216	3.6	3.0	4	277	12 00	2 69	1500	8.0	4.0	5	931	30 05	4 50
240	3.6	3.5	4	303	13 00	2 69	1656	8.0	4.5	5	989	31 85	4 50
321	4.0	3.5	4	361	15 20	2 69	2031	8.0	5.5	5	1096	35 50	4 50
406	4.6	3.5	4	402	16 55	2 69	2406	8.0	6.5	6	1248	40 15	5 30
587	5.0	4.0	4	505	18 50	2 86	2781	8.0	7.5	6	1372	44 05	5 55
648	5.0	4.5	4	543	20 55	2 86	637	8.6	1.5	2	615	19 65	1 85
712	5.6	4.0	4	566	21 90	3 20	849	8.6	2.0	2	675	21 50	1 85
788	5.6	4.5	5	624	23 00	4 00	1061	8.6	2.5	3	765	24 50	2 65
964	5.6	5.5	5	706	26 00	4 00	1273	8.6	3.0	3	825	26 40	2 65
317	6.0	1.5	2	363	15 00	1 60	1450	8.6	3.5	4	915	28 25	3 45
422	6.0	2.0	2	411	16 00	1 80	1697	8.6	4.0	4	982	31 50	3 70
527	6.0	2.5	3	476	18 00	2 65	1875	8.6	4.5	4	1038	32 05	3 70
632	6.0	3.0	3	520	20 50	2 65	2299	8.6	5.5	5	1190	38 20	4 50
720	6.0	3.5	4	586	22 50	3 45	2723	8.6	6.5	5	1314	42 10	4 75
845	6.0	4.0	5	645	24 00	4 00	3148	8.6	7.5	6	1462	46 90	5 55
934	6.0	4.5	4	694	25 50	4 00	3572	8.6	8.5	7	1616	51 90	6 35
1145	6.0	5.5	5	776	28 00	4 25	714	9.0	1.5	2	656	20 95	1 85
372	6.6	1.5	2	419	16 25	1 60	951	9.0	2.0	3	740	23 70	2 40
495	6.6	2.0	3	487	18 00	2 40	1188	9.0	2.5	3	804	25 70	2 40
618	6.6	2.5	3	535	19 75	2 40	1425	9.0	3.0	4	907	29 25	3 45
741	6.6	3.0	3	583	21 25	2 40	1623	9.0	3.5	4	971	31 20	3 45
848	6.6	3.5	4	656	23 00	3 20	1900	9.0	4.0	4	1035	33 20	3 45
993	6.6	4.0	5	729	25 50	4 00	2098	9.0	4.5	4	1104	35 35	3 70
1096	6.6	4.5	4	767	27 10	3 45	2577	9.0	5.5	5	1260	40 40	4 50
1344	6.6	5.5	5	906	29 00	4 25	3053	9.0	6.5	5	1394	44 65	4 75
1592	6.6	6.5	6	1010	33 15	5 05	3529	9.0	7.5	6	1553	49 80	5 55
431	7.0	1.5	2	446	17 00	1 60	4004	9.0	8.5	7	1711	54 95	6 35
575	7.0	2.0	2	496	18 25	1 60	795	9.6	1.5	2	726	23 15	1 85
719	7.0	2.5	3	570	19 75	2 40	1060	9.6	2.0	3	821	26 30	2 40
863	7.0	3.0	3	620	21 50	2 40	1320	9.6	2.5	3	889	28 40	2 40
983	7.0	3.5	4	694	23 50	3 20	1590	9.6	3.0	3	964	30 80	2 65
1151	7.0	4.0	4	751	25 25	3 45	1811	9.6	3.5	4	1066	34 20	3 45
1271	7.0	4.5	4	807	28 55	3 45	2120	9.6	4.0	4	1134	36 30	3 45
1559	7.0	5.5	5	921	30 00	4 25	2348	9.6	4.5	4	1223	39 15	3 70
1847	7.0	6.5	5	1031	34 50	4 50	2871	9.6	5.5	5	1385	44 45	4 75
495	7.6	1.5	2	509	18 00	1 60	3402	9.6	6.5	6	1554	49 95	5 55
660	7.6	2.0	3	589	19 75	2 40	3933	9.6	7.5	6	1690	54 20	5 75
825	7.6	2.5	3	643	21 00	2 40	4462	9.6	8.5	7	1859	59 70	6 35
990	7.6	3.0	3	697	22 50	2 40	4992	9.6	9.5	7	2002	64 25	6 60
1128	7.6	3.5	4	778	25 00	3 20	881	10.0	1.5	2	765	24 40	1 85
1322	7.6	4.0	4	833	30 15	3 45	1175	10.0	2.0	2	837	26 65	1 85
1460	7.6	4.5	4	893	31 50	3 45	1468	10.0	2.5	3	945	30 25	2 65
1790	7.6	5.5	5	1032	35 55	4 50	1762	10.0	3.0	3	1017	32 25	2 65
2120	7.6	6.5	5	1140	37 60	4 50	2006	10.0	3.5	4	1124	36 05	3 45
563	8.0	1.5	2	552	17 65	1 85	2348	10.0	4.0	4	1202	38 50	3 70
751	8.0	2.0	2	610	19 45	1 85	2592	10.0	4.5	4	1274	40 75	3 70
939	8.0	2.5	3	689	22 05	2 40							

List prices are for both 1½ and 2 inch tanks, but we make a better discount on the 1½ inch, which we recommend as ample thickness for tanks up to 10 feet diameter and 10 feet high, when hooped as heavy as we hoop our tanks.

We also have a printed set of list prices for tanks 10 to 20 feet diameter for both 2½ and 3 inch thicknesses. Write for it.

In ordering always state whether draw lugs for the hoops are wanted. They should be used for best results. Prices given are based on flat hoops. Round hoops cost more.

The capacities, which are guaranteed to be correct, are based on tanks having straight staves, but unless otherwise ordered we make them with a slight taper.

The shipping weights are guaranteed as correct for 2 inch tanks. Deduct 20 per cent. for weights of 1½ in.

LIST PRICES OF ROUND TANKS FOR ALL PURPOSES.

CYPRESS OR WHITE PINE.

We use same List Prices, but give different discounts on Cypress and White Pine Tanks.

Gallons.	Inside Diameter.	Inside Depth.	Number of Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.	Gallons.	Inside Diameter.	Inside Depth.	Number of Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.
ft. in.	ft. in.	ft. in.		lbs.			ft. in.	ft. in.	ft. in.		lbs.		
3182	10.0	5.5	5	1454	\$46 60	\$4 50	2115	12.0	2.5	3	1226	\$39 15	\$2 65
3770	10.0	6.5	5	1608	51 50	4 75	2538	12.0	3.0	3	1318	42 05	2 90
4357	10.0	7.5	6	1784	57 20	5 55	2891	12.0	3.5	3	1414	45 10	3 15
4945	10.0	8.5	7	1971	63 30	6 60	3384	12.0	4.0	4	1534	49 10	3 70
5532	10.0	9.5	8	2158	69 35	7 40	3737	12.0	4.5	4	1620	51 75	3 70
972	10.6	1.5	2	881	28 05	1 85	4582	12.0	5.5	5	1843	59 05	4 75
1295	10.6	2.0	2	962	30 60	2 10	5428	12.0	6.5	6	2065	66 80	5 80
1609	10.6	2.5	2	1036	32 90	2 10	6274	12.0	7.5	7	2280	73 30	6 60
1943	10.6	3.0	3	1140	36 35	2 65	7110	12.0	8.5	8	2494	80 25	7 60
2213	10.6	3.5	4	1251	40 05	3 45	7956	12.0	9.5	8	2682	86 20	7 85
2590	10.6	4.0	4	1325	42 40	3 45	8802	12.0	10.6	9	2898	98 55	8 65
2860	10.6	4.5	5	1443	46 35	4 50	9658	12.0	11.5	9	3091	99 18	9 10
3508	10.6	5.5	5	1591	50 95	4 50	1377	12.6	1.5	2	1150	36 60	2 10
4155	10.6	6.5	6	1783	57 25	5 55	1836	12.6	2.0	3	1289	41 15	2 65
4803	10.6	7.5	7	1968	63 25	6 35	2295	12.6	2.5	3	1369	43 65	2 65
5452	10.6	8.5	7	2123	68 15	6 60	2754	12.6	3.0	3	1466	46 75	2 90
6100	10.6	9.5	8	2314	74 35	7 65	3136	12.6	3.5	3	1563	49 85	3 15
1066	11.0	1.5	2	933	29 75	2 10	3672	12.6	4.0	4	1696	54 25	3 70
1421	11.0	2.0	2	1011	32 15	2 10	4053	12.6	4.5	4	1784	57 00	3 70
1777	11.0	2.5	3	1120	35 75	2 65	4971	12.6	5.5	5	2003	64 15	4 75
2132	11.0	3.0	3	1198	38 20	2 65	5890	12.6	6.5	7	2276	73 25	6 60
2428	11.0	3.5	4	1307	41 80	3 20	6808	12.6	7.5	7	2452	78 75	6 60
2843	11.0	4.0	4	1392	44 50	3 45	7726	12.6	8.5	8	2672	85 90	7 40
3139	11.0	4.5	4	1470	46 95	3 45	8644	12.6	9.5	8	2865	92 05	7 85
3850	11.0	5.5	5	1679	53 80	4 75	9638	12.6	10.6	9	3084	104 70	8 65
4561	11.0	6.5	6	1877	60 25	5 55	10481	12.6	11.5	9	3279	105 40	9 10
5272	11.0	7.5	7	2079	66 85	6 60	5378	13.0	5.5	6	2138	68 70	5 80
5982	11.0	8.5	8	2274	73 20	7 40	6370	13.0	6.5	6	2322	74 50	5 80
6694	11.0	9.5	8	2438	78 37	7 65	7363	13.0	7.5	7	2556	82 10	6 60
7405	11.0	10.6	8	2632	89 60	8 45	8356	13.0	8.5	7	2744	88 50	6 80
1165	11.6	1.5	2	976	31 10	2 10	9349	13.0	9.5	9	3045	98 15	9 10
1553	11.6	2.0	2	1058	33 65	2 10	10420	13.0	10.6	9	3250	110 50	9 55
1942	11.6	2.5	3	1164	37 15	2 40	11333	13.0	11.5	10	3481	112 20	10 55
2331	11.6	3.0	3	1246	39 70	2 40	12410	13.0	12.6	10	3684	124 45	11 00
2654	11.6	3.5	3	1335	42 50	2 65	5800	13.6	5.5	6	2187	70 25	5 55
3107	11.6	4.0	4	1457	46 55	3 45	6870	13.6	6.5	6	2388	76 60	5 80
3430	11.6	4.5	4	1548	49 50	3 70	7940	13.6	7.5	7	2584	84 20	6 60
4207	11.6	5.5	5	1760	56 40	4 75	9010	13.6	8.5	7	2816	90 30	6 80
4985	11.6	6.5	6	1976	63 40	5 55	10080	13.6	9.5	9	3129	100 85	9 10
5762	11.6	7.5	7	2176	69 95	6 60	11150	13.6	10.6	10	3378	115 05	10 35
6539	11.6	8.5	8	2380	76 57	7 40	12220	13.6	11.5	10	3580	115 45	10 55
7316	11.6	9.5	8	2552	82 00	7 65	13290	13.6	12.6	10	3778	127 75	11 00
8093	11.6	10.6	9	2756	93 75	8 45	6237	14.0	5.5	5	2262	72 50	5 20
1269	12.0	1.5	2	1020	32 50	2 10	7388	14.0	6.5	6	2518	80 85	6 20
1692	12.0	2.0	3	1140	36 45	2 65	8540	14.0	7.5	7	2765	88 90	7 00
							9691	14.0	8.5	8	2819	97 15	8 05

The above prices are based on tanks made of 2 inch material, which we can guarantee as ample thickness for tanks up to 20 feet in diameter and 20 feet high, when made of Cypress and as heavily hooped as all our tanks are.

We also have a printed set of list prices for tanks 10 to 20 feet diameter for both 2½ and 3 inch thicknesses. Write for it.

In ordering always state whether draw lugs for the hoops are wanted. They should be used for best results.

Prices given are based on flat hoops. Round hoops cost more.

The capacities, which are guaranteed to be correct, are based on tanks having straight staves, but unless otherwise ordered we make them with a slight taper.

The shipping weights are guaranteed correct.

LIST PRICES OF ROUND TANKS FOR ALL PURPOSES.

CYPRESS OR WHITE PINE.

We use same List Prices, but give different discounts on Cypress and White Pine Tanks.

Gallons.	Inside Diameter.	Inside Depth.	Number of Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.	Gallons.	Inside Diameter.	Inside Depth.	Number of Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.
ft.in.	ft.in.	ft.in.		lbs.			ft.in.	ft.in.	ft.in.		lbs.		
10843	14.0	9.5	9	3265	\$105 15	\$8 85	10264	16.6	6.5	7	3283	\$105 55	\$7 25
11995	14.0	10.6	9	3592	122 45	9 55	11864	16.6	7.5	8	3611	116 40	8 95
13146	14.0	11.5	10	3796	122 60	11 00	13464	16.6	8.5	8	3854	124 05	9 15
14298	14.0	12.6	10	4080	138 25	12 35	15064	16.6	9.5	8	4178	134 75	9 60
15449	14.0	13.5	10	4280	138 25	12 35	16660	16.6	10.6	9	4510	153 05	11 35
6691	14.6	5.5	5	2452	78 50	5 20	18264	16.6	11.5	9	4799	155 15	12 00
7925	14.6	6.5	6	2716	87 10	6 20	19864	16.6	12.6	11	5150	174 20	13 60
9160	14.6	7.5	7	2970	95 37	7 00	21464	16.6	13.5	11	5385	174 20	13 60
10395	14.6	8.5	8	3234	104 00	8 05	23064	16.6	14.6	11	5626	189 15	13 85
11631	14.6	9.5	9	3488	112 25	8 85	24664	16.6	15.5	13	5985	193 85	15 90
12866	14.6	10.6	9	3820	129 90	9 55	9197	17.0	5.5	5	2956	94 70	4 95
14102	14.6	11.5	10	4035	130 25	11 00	10894	17.0	6.5	7	3382	109 20	7 25
15326	14.6	12.6	10	4326	145 55	11 90	12592	17.0	7.5	7	3627	116 85	8 15
16573	14.6	13.5	10	4532	146 30	12 35	14290	17.0	8.5	8	3933	126 86	9 15
7160	15.0	5.5	5	2530	80 90	4 95	15988	17.0	9.5	9	4273	138 20	10 40
8412	15.0	6.5	6	2820	90 45	6 20	17827	17.0	10.6	9	4556	154 85	11 35
9804	15.0	7.5	7	3093	100 65	7 25	19384	17.0	11.5	9	4865	157 40	12 00
11126	15.0	8.5	8	3386	109 05	8 95	21233	17.0	12.6	9	5216	176 60	12 00
12448	15.0	9.5	8	3696	119 36	8 95	22639	17.0	13.4	11	5457	176 60	13 60
13778	15.0	10.6	9	3917	133 00	9 35	24619	17.0	14.6	12	5788	195 05	15 10
15090	15.0	11.5	9	4130	133 65	9 95	26035	17.0	15.4	13	6085	197 20	15 90
16413	15.0	12.6	10	4394	148 20	11 00	27733	17.0	16.6	14	6632	223 75	16 70
17735	15.0	13.5	11	4730	152 80	12 70	29431	17.0	17.4	15	6942	226 35	17 50
19057	15.0	14.6	12	4943	166 50	13 75	9746	17.6	5.5	5	3113	99 70	7 25
7645	15.6	5.5	5	2599	83 16	4 95	11545	17.6	6.5	7	3554	114 70	7 95
9057	15.6	6.5	6	2884	92 50	6 20	13344	17.6	7.5	7	3798	122 35	8 15
10468	15.6	7.5	7	3165	101 70	7 25	15143	17.6	8.5	7	4114	133 90	9 15
11880	15.6	8.5	7	3476	112 00	8 95	16943	17.6	9.5	8	4416	142 45	9 60
13390	15.6	9.5	8	3789	123 60	8 95	18892	17.6	10.6	9	4764	161 55	11 35
14702	15.6	10.6	8	3942	133 65	8 95	20541	17.6	11.5	9	5082	164 15	12 00
16114	15.6	11.5	9	4226	136 05	9 95	22490	17.6	12.6	9	5328	179 65	12 00
17526	15.6	12.6	10	4502	152 15	11 30	23990	17.6	13.4	11	5690	184 15	13 60
18937	15.6	13.5	11	4840	156 50	12 70	26088	17.6	14.6	12	5926	203 00	15 10
20349	15.6	14.6	12	5116	172 30	13 75	27588	17.6	15.4	13	6334	205 25	15 90
8147	16.0	5.5	5	2686	85 90	4 95	29387	17.6	16.6	14	6970	232 65	16 70
9651	16.0	6.5	7	3048	98 10	7 25	31186	17.6	17.4	15	7222	235 35	17 50
11155	16.0	7.5	8	3370	108 75	8 95	10312	18.0	5.5	6	3372	108 75	8 15
12659	16.0	8.5	8	3604	116 50	9 15	12215	18.0	6.5	7	3689	119 05	8 95
14163	16.0	9.5	8	3922	127 90	9 60	14118	18.0	7.5	8	4091	132 50	9 85
15667	16.0	10.6	9	4240	144 35	11 35	16021	18.0	8.5	9	4433	143 75	11 10
17171	16.0	11.5	9	4529	147 60	12 00	17924	18.0	9.5	9	4689	151 75	11 10
18675	16.0	12.6	11	4853	164 55	13 60	19827	18.0	10.6	9	5040	171 30	12 00
20179	16.0	13.5	11	5080	164 55	13 60	21730	18.0	11.5	10	5370	174 05	13 05
21683	16.0	14.6	11	5330	179 60	14 00	23475	18.0	12.6	11	5786	196 05	17 00
23187	16.0	15.5	13	5678	184 15	15 90	25378	18.0	13.4	11	6041	196 05	17 00
8664	16.6	5.5	5	2905	92 80	4 95	27281	18.0	14.6	11	6298	212 05	17 00

The above prices are based on tanks made of 2 inch material, which we can guarantee as ample thickness for tanks up to 20 feet in diameter and 20 feet high, when made of Cypress and as heavily hooped as all our tanks are.

We also have a printed set of list prices for tanks 10 to 20 feet diameter for both 2½ and 3 inch thicknesses. Write for it.

In ordering always state whether draw lugs for the hoops are wanted. They should be used for best results.

Prices given are based on flat hoops. Round hoops cost more.

The capacities, which are guaranteed to be correct, are based on tanks having straight staves, but unless otherwise ordered we make them with a slight taper.

The shipping weights are guaranteed correct.

LIST PRICES OF ROUND TANKS FOR ALL PURPOSES.

CYPRESS OR WHITE PINE.

We use same List Prices, but give different discounts on Cypress and White Pine Tanks.

Gallons.	Inside Diam.	Inside Depth.	Number of Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.	Gallons.	Inside Diam.	Inside Depth.	Number of Hoops.	Shipping Weight.	Price Complete, Riveted Hoops.	Price of Lugs, Extra.
ft. in.	ft. in.	ft. in.		lbs.			ft. in.	ft. in.	ft. in.		lbs.		
29184	18.0	15.4	12	6750	\$219 45	\$18 05	12101	19.6	5.5	6	3871	\$125 20	\$ 8 00
31087	18.0	16.6	13	7083	238 65	19 30	14335	19.6	6.5	7	4305	139 80	9 70
32990	18.0	17.4	13	7408	240 90	19 75	16569	19.6	7.5	8	4673	153 15	10 95
10891	18.6	5.5	6	3580	115 30	7 35	18803	19.6	8.5	9	5026	163 40	12 00
12902	18.6	6.5	7	3901	125 75	7 95	21037	19.6	9.5	9	5367	174 75	14 25
14912	18.6	7.5	8	4309	139 45	9 85	23271	19.6	10.6	9	5656	192 30	14 70
16923	18.6	8.5	9	4655	150 80	11 10	25502	19.6	11.5	11	6109	199 35	17 00
18934	18.6	9.5	9	4913	158 85	11 10	27550	19.6	12.6	11	6377	215 95	17 00
20944	18.6	10.6	9	5254	178 25	12 00	29784	19.6	13.4	11	6653	215 95	17 00
22954	18.6	11.5	10	5591	181 05	13 05	32018	19.6	14.6	11	6967	234 65	17 00
24796	18.6	12.6	11	6018	203 65	17 00	34252	19.6	15.4	12	7539	245 75	19 50
26806	18.6	13.4	11	6280	203 65	17 00	36486	19.6	16.6	13	7908	266 80	20 75
28816	18.6	14.6	11	6534	219 80	17 00	38726	19.6	17.4	13	8246	269 35	21 25
30826	18.6	15.4	12	7000	227 45	18 05	40954	19.6	18.6	14	8610	289 45	22 45
32836	18.6	16.6	13	7416	249 65	19 95	12729	20.0	5.5	6	4036	130 85	8 00
34846	18.6	17.4	14	7754	252 50	21 00	15079	20.0	6.5	7	4347	140 75	9 25
11488	19.0	5.5	6	3780	122 15	8 00	17429	20.0	7.5	8	4792	155 70	10 95
13609	19.0	6.5	8	4217	136 90	10 30	19779	20.0	8.5	8	5072	164 45	10 95
15730	19.0	7.5	8	4485	145 30	10 30	22130	20.0	9.5	8	5352	173 20	10 95
17852	19.0	8.5	8	4830	156 50	10 95	24480	20.0	10.6	9	5804	197 25	14 25
19972	19.0	9.5	9	5176	167 80	10 95	26830	20.0	11.5	9	6160	200 00	14 70
22093	19.0	10.6	9	5530	187 85	14 75	28985	20.0	12.6	10	6520	220 60	15 30
24212	19.0	11.5	10	5890	191 25	15 95	31334	20.0	13.4	10	6885	223 65	15 95
26158	19.0	12.6	10	6156	208 00	15 95	33684	20.0	14.6	11	7245	244 30	17 00
28279	19.0	13.4	11	6504	210 90	16 75	36035	20.0	15.4	12	7734	252 00	19 50
30399	19.0	14.6	11	6770	227 65	16 75	38385	20.0	16.6	12	8010	269 50	19 50
32520	19.0	15.4	12	7366	239 85	19 50	40725	20.0	17.4	13	8459	274 70	21 20
34641	19.0	16.6	13	7723	260 00	20 75	43085	20.0	18.6	14	8834	296 85	22 05
36762	19.0	17.4	13	8057	262 40	21 20	45435	20.0	19.4	15	9281	302 05	24 15
38883	19.0	18.6	14	8442	283 65	22 45							

NOTE.—These prices on all tanks up to and including 20 feet in diameter are based on 2 inch thick material; all tanks 22 feet in diameter and over are based on 2½ and 3 inch thick material. All tanks above 20,000 gallons capacity are ordinarily made of thicker material than 2 inch. However, we often make tanks 20 feet diameter and 20 feet high of 2 inch Cypress.

15402	22.0	5.4	5	7773	\$245 30	\$12 60	58657	24.0	17.4	14	18582	\$588 42	\$56 00
18246	22.0	6.4	6	8496	266 90	15 60	65426	24.0	19.4	16	20590	663 44	70 00
21090	22.0	7.4	7	9279	290 59	19 60	72194	24.0	21.4	17	22207	728 42	77 00
23933	22.0	8.4	8	9953	316 43	21 20	78962	24.0	23.4	19	23926	798 64	86 00
26777	22.0	9.4	8	10579	341 07	24 60	60897	26.0	15.4	12	18904	588 01	70 50
29620	22.0	10.6	9	11332	368 25	25 00	68840	26.0	17.4	14	21213	666 76	94 50
32464	22.0	11.4	9	11956	371 05	27 00	76784	26.0	19.4	16	23261	741 77	111 00
35071	22.0	12.6	10	12680	409 94	30 00	84727	26.0	21.4	17	25060	811 38	123 00
37914	22.0	13.4	10	13329	411 70	32 00	92761	26.0	23.4	19	27031	889 93	138 00
40758	22.0	14.6	11	14184	454 51	38 00	70627	28.0	15.4	14	21997	691 36	100 50
43601	22.0	15.4	12	14878	458 35	40 00	79840	28.0	17.4	16	24130	768 13	116 50
46445	22.0	16.6	13	15986	518 48	52 00	89052	28.0	19.4	18	26212	845 80	130 50
49289	22.0	17.4	14	16773	525 00	56 00	98264	28.0	21.4	19	28133	921 65	141 00
52132	22.0	18.6	15	17683	582 16	63 00	107476	28.0	23.4	20	30149	1002 68	154 50
54976	22.0	19.4	16	18628	593 91	70 00	81077	30.0	15.4	14	23916	763 11	100 50
57819	22.0	20.6	17	19346	647 65	73 00	91653	30.0	17.4	16	26137	805 45	115 50
60663	22.0	21.4	17	20120	653 53	77 00	102228	30.0	19.4	18	28408	928 47	130 50
45121	24.0	13.4	10	15002	469 36	35 00	112803	30.0	21.4	19	30555	1012 03	144 00
51889	24.0	15.4	12	16776	522 96	45 00	123379	30.0	23.4	21	32670	1098 27	157 50

The above capacities are based on tanks having straight staves, but unless otherwise ordered we usually make them with a slight taper.

We guarantee the capacities as above to be correct. We guarantee weights given to be correct.

FACTORY MUTUAL TANKS.

These prices are for Tanks built to suit the requirements of The Factory Mutual Insurance Companies. Their specifications require that tanks shall be built of one particular size for a given capacity and constructed of 2½ inch material for 20,000 gallons and under, and of 3 inch material if over 20,000 gallons. The hooping must also be of a certain standard, and likewise the Tank Covers or Roofs, etc., where these are supplied.

We give prices for the Tanks alone, and also prices which include the Tank Roof with Cypress Shingles to cover it over, and with a Flat Ceiling across the top of Tank to protect it from freezing—and a Wood Ladder inside the Tank and an Iron Ladder outside—also an Indicator, Gauge and Float, and Sub-joists or Dunnage for the bottom of Tank to rest upon.

Gallons.	Inside Diameter.	Inside Depth.	No. Round Hoops.	Shipping Weight.	Price, Complete.	Same Tank with Octagonal Cover, Shingles, Flat Cover, Ladders, Indicator and Dunnage.	Shipping Weight.	Price Complete.
	ft. in.	ft. in.		lbs.		Gals.	lbs.	
5000	10.0	11.4	10	3876	\$141 94	5000	5639	\$195 88
7500	11.6	11.4	10	4535	165 22	7500	7043	232 04
10000	13.6	11.4	11	5475	201 77	10000	8799	283 61
12000	13.6	13.4	14	6274	232 55	12000	9598	315 69
15000	14.6	13.4	14	6952	256 44	15000	10282	339 64
20000	15.6	15.4	16	8514	315 55	20000	12459	418 02
25000	17.6	15.4	16	11470	423 01	25000	16357	544 48
30000	18.0	17.4	20	13426	514 49	30000	18413	638 43
40000	19.6	19.4	22	16598	657 76	40000	22483	814 05
50000	22.0	19.4	23	19580	779 08	50000	26729	970 77
60000	24.0	19.4	23	22475	910 48	60000	31322	1147 00
75000	24.6	23.4	31	28243	1199 39	75000	37090	1440 62
100000	28.6	23.4	34	35077	1500 67	100000	49727	1887 49

Write for Discounts.

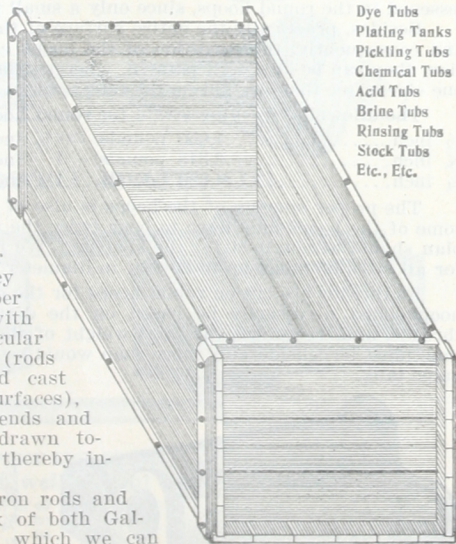
RECTANGULAR TANKS.

We make Rectangular Tanks and also Tanks elliptical in form, of any required dimensions. These Tanks are extensively used in Woolen and Cotton Mills, Mines, Chemical Works, Tin Plate, Nail and Rolling Mills, Ice Factories, Breweries, etc, etc.

Our Rectangular Tanks are all thoroughly constructed and finished. Just as much pains is taken with the smaller sizes as with the larger. They are built of dry lumber of proper thickness, are heavily rodded with both horizontal and perpendicular rods at proper intervals (rods being supplied with nuts and cast washers that cover large surfaces), so that the joints in sides, ends and bottoms may be thoroughly drawn together and a water-tight tank thereby insured.

We generally furnish plain iron rods and washers, but we carry a stock of both Galvanized Iron and Brass Rods, which we can supply where required.

Write for price on Rectangular Tanks of any size wanted.



Dye Tubs
Plating Tanks
Pickling Tubs
Chemical Tubs
Acid Tubs
Brine Tubs
Rinsing Tubs
Stock Tubs
Etc., Etc.

We also build these Tanks with partitions.

THE HOOPING OF TANKS.

The hooping of a tank is the most important point about its construction, for upon the strength of the hoops depends the safety of the tank.

The very best quality of material may be put into the tank, it may be manufactured in a first-class manner and erected properly, and all this avail nothing if the hoops are not strong enough to hold it together against the weight and pressure of the water.

There should, of course, be sufficient strength in the hoops not only just to hold against the pressure, but to allow a proper margin or factor of safety, which should be not less than four to one; in other words, if the tensile strength of the steel is estimated at 60,000 pounds, the hoops furnished should be of such a number and size that when properly spaced on the tank, no more than 15,000 pounds stress per square inch of section should come on any hoop.

It may be a strong statement to make, but it is true, nevertheless, that a great many tank manufacturers are not able to calculate the size of hoops required for a tank, and have to depend altogether upon their general ideas of about what seems the proper number and size of use, and this, unfortunately, does not, by any means, apply to just the small firms that build tanks.

Under these circumstances, a desire to meet the views of prospective purchasers as to price offers a strong temptation to such a manufacturer to conclude he will be safe in furnishing hoops a little lighter or fewer in number than he himself considers to be safe, which is only another way of pointing out the advisability of dealing with thoroughly responsible and competent manufacturers, as you then will run no risk of this kind.

The tendency toward the use of round hoops is increasing at a rapid rate, as their superiority is becoming more widely known and better appreciated. This style of hoop is several times as thick as a flat hoop of the same weight, and there is consequently several times the metal to rust through before the hoop gives out; moreover, since the corrosion of hoops is principally from the inside, where the band bears on the staves, the point of attack is materially lessened in the round hoops, since only a small part of it bears on the tank.

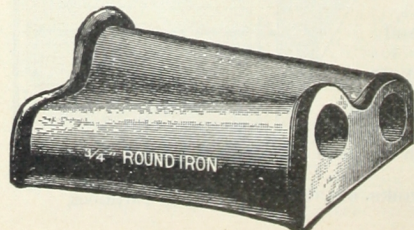
Besides, practically the entire surface of the round hoop can be examined, and consequently, the condition of the hoops easily determined, and, in addition, they can be kept well painted, whereas, flat hoops can be painted only on one side, after they are put on the tank.

The allowable working strain for round hoops is given below:

$\frac{1}{2}$ inch.....	1,650 pounds.	$\frac{7}{8}$ inch.....	6,090 pounds.
$\frac{5}{8}$ inch.....	3,315 pounds.	1 inch.....	8,355 pounds.
$\frac{3}{4}$ inch.....	4,230 pounds.	$1\frac{1}{8}$ inch.....	10,350 pounds.

The proper spacing of the hoops is also of great importance, as otherwise some of the hoops may have to bear twice the strain they are intended to. A plan should be obtained for the spacing. We have these hoop plans made up for all sizes of tanks up to 30 feet in diameter.

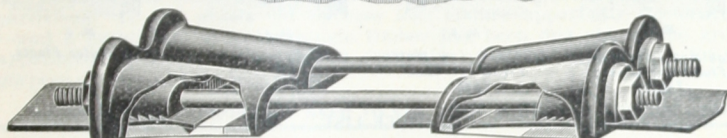
As threads are cut on round hoops for the draw lugs, the strength of these hoops must necessarily be based on the diameter of the hoops under the threads, and, therefore, the total weight of the round hoops required for any tank must be considerably more than would be necessary in flat hoops for that same tank.



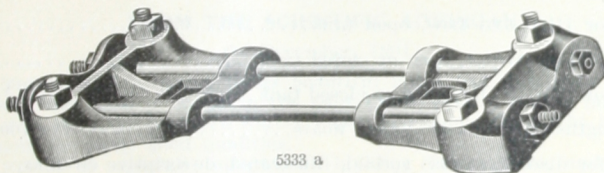
MALLEABLE IRON ROUND LUGS.

$\frac{1}{2}$ inch.....	each, \$.30
$\frac{5}{8}$ inch.....	" .40
$\frac{3}{4}$ inch.....	" .50
$\frac{7}{8}$ inch.....	" .60
1 inch.....	" .80

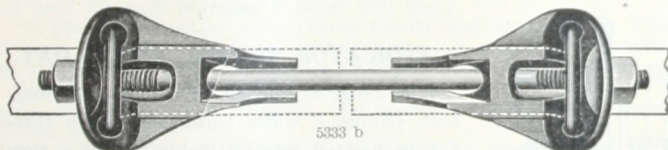
Write for Discounts.



THE CALDWELL PATENT LUG.

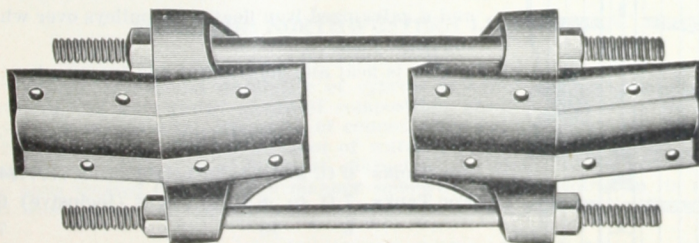


5333 a



5333 b

THE CALDWELL RIVETED LUG.



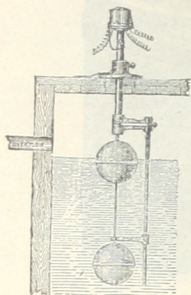
PRICE LIST OF THE
Tecktonius and Caldwell Patent and Riveted Lugs.

1½ inch Patent Lugs.....	Per pair, \$0 40	3½ inch Patent Lugs.....	Per pair, \$1 50
2 " " " " " " " " " " " "	" " " " " " " " " " " "	4 " " " " " " " " " " " "	" " " " " " " " " " " "
2½ " " " " " " " " " " " "	" " " " " " " " " " " "	5 " " " " " " " " " " " "	" " " " " " " " " " " "
3 " " " " " " " " " " " "	" " " " " " " " " " " "	6 " " " " " " " " " " " "	" " " " " " " " " " " "
	1 00		3 50

Write for Discounts.

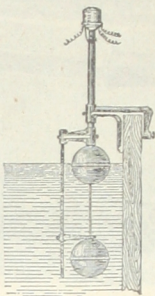
Why should Patent Lugs be used on all Tanks?
Because of the convenience in tightening the hoops at will.

CALDWELL TELL-TALE FLOATS.



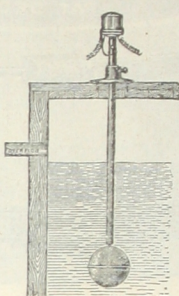
No. 1.

High and Low Water
Floats for Closed
Tanks.



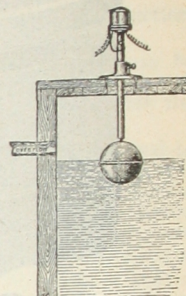
No. 2.

High and Low Water
Floats for Open
Tanks.



No. 3.

Low Water Floats.



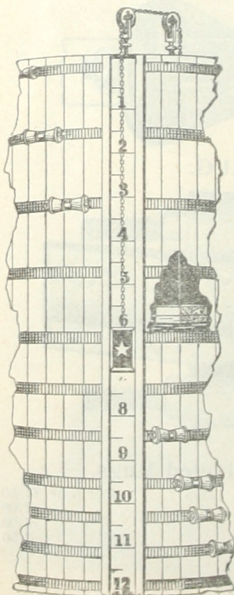
No. 4.

High Water Floats.

PRICE LIST.

No. 1.	For High and Low, closed tank.....	\$12.00
No. 2.	For High and Low, open tank.....	12.00
No. 3.	For Low Water, open or closed tank.....	7.00
No. 4.	For High Water, open or closed tank.....	7.00
Extra lengths on single or double floats.....Per foot,		40

Write for discounts; also special, illustrated, descriptive circular.



INDICATOR, GAUGE, AND FLOAT.

This gauge is laid off in feet and decimals of a foot, having a white background with three-inch figures painted thereon in black, and is furnished with a brass chain for attaching the sliding gauge and a galvanized iron float with pulleys over which the chain runs.

This is neat and substantial and inexpensive.

PRICE LIST.

For Tanks	6 ft. and less in height.....	\$4.80
For Tanks	7 ft. to 8 ft. in height (inclusive)	6.00
"	9 " 10 " "	7.80
"	11 " 14 " "	10.20
"	15 " 18 " "	13.20
"	19 " 20 " "	15.60
"	21 " 24 " "	18.00
"	25 " 26 " "	21.60

THE DURABILITY OF CYPRESS.

FROM U. S. GOVERNMENT CIRCULAR No. 19.

Department of Agriculture, Division of Forestry, 1898.

"One of the most highly valued properties of Cypress is its great durability. Rived Shingles of Cypress are claimed to have endured over eighty years in Philadelphia and Baltimore. Posts and piling of Cypress are sought for their durability.

Cypress Excels for Tank Material,

and of late, builders of greenhouses, with whom a Hemlock or Oak board decays in one to three years, are beginning to use Cypress for frames and partitions. In the woods old Cypress logs endure apparently for centuries—and a great deal of good shingle timber has been dug out of the ground apparently as sound as ever, and certainly as much appreciated for this purpose as logs of standing trees.

"IN GENERAL IT IS PROBABLY SAFE TO SAY THAT THE HEARTWOOD OF CYPRESS LASTS TWO OR THREE TIMES AS LONG AS THE HEARTWOOD OF PINE."

FROM THE SCIENTIFIC AMERICAN

Of December, 1891:

"Cypress timber, owing to its beautiful finish and durability and lightness, has long been in favor in the Gulf Coast States, and is fast growing in favor in the more northern States, especially among those who have tested and know its many good qualities.

"Cypress is especially adapted to building Tanks, Tubs, and Vats, and when used for such purposes it never will decay.

"It also makes better Sash, Doors, Blinds, and Frames than White Pine, and many railroads use it for water tanks. It stands the weather better than White Pine; does not warp or twist, and does not shrink or swell.

"No lumber in the world equals it for tanks, vats, siding, or weather boards, exposed floors or shingles. Siding can be used and not painted, and will last fifty years.

"The durability of Cypress is illustrated by the examples of roofs in Mobile and New Orleans in good order laid sixty years ago."

FROM THE NORTHWESTERN LUMBERMAN

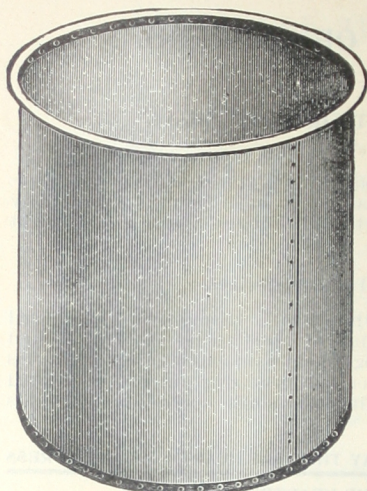
Of June, 1894:

"The phenomenal durability of cypress is believed to proceed from the presence in its natural chemical composition of an acid having the active qualities of creosote. There is, of course, some natural cause for its demonstrated proof against the ravages of water, air, and time, and that cause is equally, of course, of a chemical character. In other words, nature seems to have treated Cypress in a manner somewhat corresponding, in its results, at least, to that of the artificial use of creosote as a preservative."

FROM THE TRADESMAN

Of January, 1899:

"The value of various woods for tanks has been discussed to its capacity by people of experience, both past and present, and so thorough have these discussions been that the information gained has proved of advantage, not only to the manufacturer, but the buyer, as well. The woods more commonly used are Pine, Poplar, Redwood, Cedar, and Cypress. Comparisons and tests are strongly in favor of Louisiana Gulf Cypress."



RELIABLE GALVANIZED STEEL ROUND STORAGE TANKS.

Send for complete catalogue of Galvanized
Steel Tanks
of all sizes and shapes.

(SEE CUT.)

PRICE LIST.

Number.	Diameter.	Height.	Capacity.	Price.
1	2 feet.	2 feet.	1½ barrels.	\$4 50
2	2½ "	2½ "	3 "	5 75
3	3 "	2 "	3 "	7 50
4	3 "	3 "	5 "	9 00
5	3 "	4 "	7 "	10 00
6	4 "	3 "	9 "	11 00
7	4 "	4 "	12 "	13 00
8	4 "	5 "	15 "	15 50
9	5 "	4 "	19 "	19 00
10	5 "	5 "	24 "	23 00
11	6 "	4 "	27 "	25 00
12	6 "	5 "	34 "	30 00
13	6 "	6 "	40 "	35 00
14	6 "	8 "	47 "	43 00
15	8 "	5 "	60 "	45 00
16	8 "	6 "	70 "	53 00
17	8 "	8 "	90 "	65 00
18	10 "	8 "	150 "	90 00
19	10 "	10 "	180 "	100 00
20	12 "	10 "	270 "	128 00
21	12 "	12 "	325 "	150 00
22	14 "	12 "	430 "	223 00
23	14 "	14 "	500 "	245 00
24	16 "	14 "	650 "	289 00
25	16 "	16 "	740 "	316 00

We figure 31½ gallons to the barrel. These capacities are, however, not meant to be absolutely exact, but reasonably close.

We can furnish these tanks in any size wanted.

Prices do not include covers. When required they will be supplied at proportionate additional prices.

List prices of tanks on this and the following page are based on No. 20 Gauge. For tanks 8 feet in diameter we recommend No. 18 Gauge; for tanks 10 feet in diameter, No. 16 Gauge; for tanks 12 feet in diameter, No. 14 Gauge. Larger Tanks, No. 12 and No. 10 Gauge. No 18 Gauge increases the price 20 per cent; No. 16, 40 per cent; No. 14, 60 per cent; No. 12, 100 per cent; No. 10, 150 per cent.

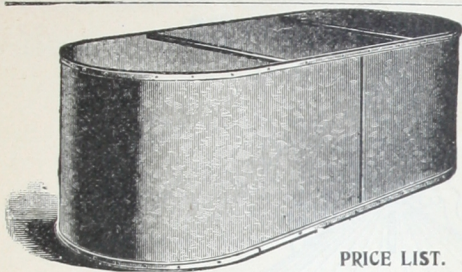
These tanks are provided with Angle Iron Stiffening Bands and are well constructed, and make a good substantial and serviceable tank. We have hundreds in use for the storage of water, oil, etc.

Tanks up to 6 feet in diameter and 5 feet high are shipped set up unless otherwise specified, and are well riveted together and soldered. Rectangular tanks not over 10 feet long are shipped set up, unless otherwise specified.

When shipped knocked down sides are all riveted together except the last seam, and the bottom is only in one or two pieces, so that the work of erection is reduced to the minimum.

Write for discounts, which include freight allowance to your station.

Send for Special Galvanized Tank Catalogue, showing various other styles with description and illustrations.



Reliable Galvanized Steel

ROUND END RECTANGULAR TANKS.

PRICE LIST.

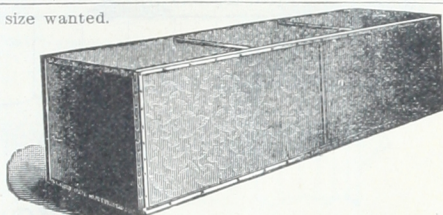
Number.	Width.	Height.	Length.	Capacity.	Price.
23	2 feet.	2 feet.	4 feet.	3½ barrels.	\$7 00
24	2 "	2 "	6 "	5½ "	9 00
25	2 "	2 "	8 "	7 "	11 00
26	2½ "	2 "	8 "	9 "	12 50
27	3 "	2½ "	8 "	11 "	13 50
28	4 "	2½ "	8 "	14 "	16 50
29	3 "	2½ "	10 "	13½ "	15 50
30	4 "	2½ "	10 "	17½ "	20 00
31	4 "	2½ "	16 "	28 "	30 00

We can furnish these tanks in any size wanted.

Reliable Galvanized Steel.

RECTANGULAR TANKS.

PRICE LIST.

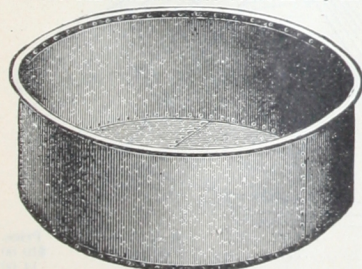


Number.	Width.	Height.	Length.	Capacity.	Price.
33	2 feet.	2 feet.	4 feet.	4 barrels.	\$7 70
34	2 "	2 "	6 "	6 "	9 90
35	2 "	2 "	8 "	7½ "	12 10
36	2½ "	2 "	8 "	9½ "	13 20
37	3 "	2½ "	8 "	12 "	14 30
38	4 "	2½ "	8 "	15 "	18 15
39	3 "	2½ "	10 "	14 "	17 00
40	4 "	2½ "	10 "	19 "	22 00
41	4 "	2½ "	16 "	30 "	33 00

We can furnish these tanks in any size wanted.

Reliable Galvanized Steel

ROUND STOCK TANKS.



Nos. 1 to 3 shipped set up or knocked down.
Larger sizes must be knocked down.

Made of heavy galvanized steel, best quality, with all seams thoroughly riveted or double seamed, and soldered, except when shipped knocked down: in the latter case the parts are nicely fitted and drilled for rivets or bent for double seams that can be locked and prepared for soldering as easily as they can be riveted, and any mechanic can do the work by following instructions given.

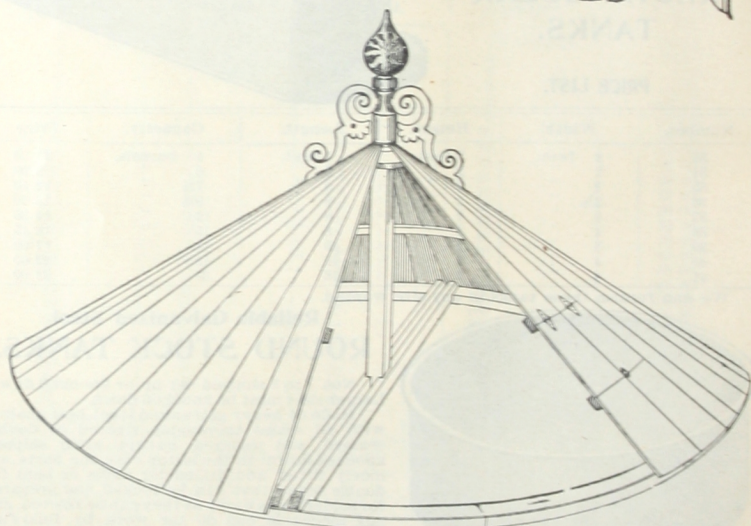
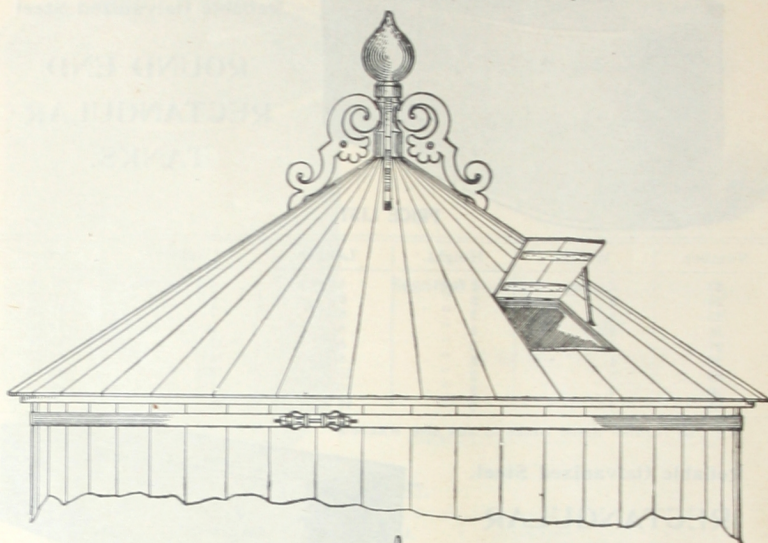
PRICE LIST.

Number.	Diameter.	Height.	Capacity.	Price.
45	4 feet.	2 feet.	6 barrels.	\$9 00
46	5 "	2 "	9½ "	11 50
47	6 "	2 "	14 "	16 50
48	8 "	2 "	24 "	24 00
49	10 "	2 "	37½ "	34 00

We can furnish these tanks in any size wanted. Prices do not include covers. They can be supplied at proportionate additional prices when required.

Send for Special Galvanized Tank Catalogue showing various other styles with description and illustrations.

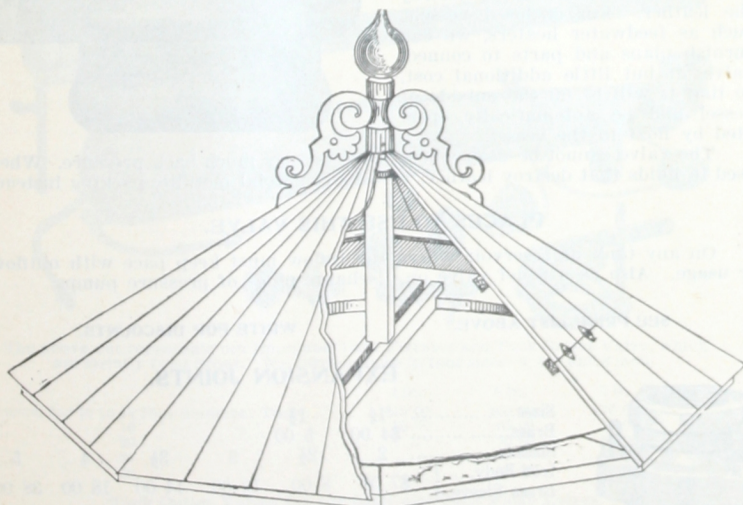
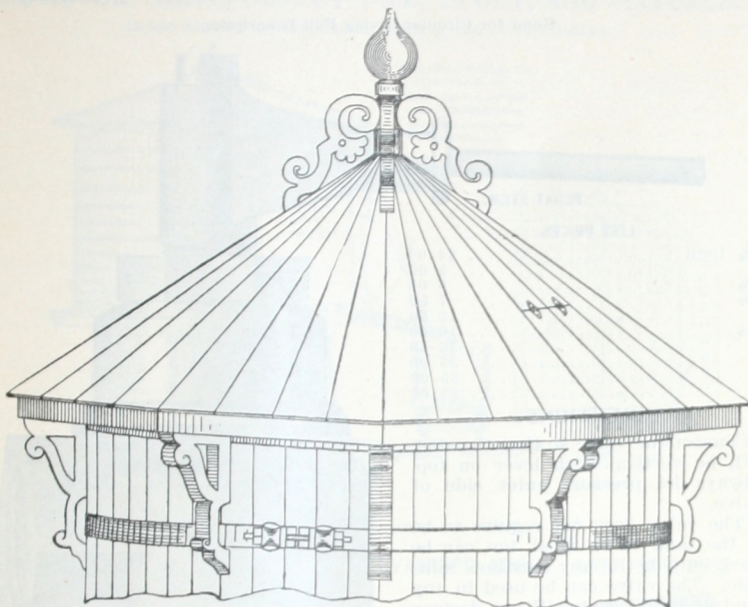
PLAIN CONICAL COVERS.



				Weight	Price.
Cover for Tank, 6 feet 6 inches diameter.....				200 lbs.	\$10 00
Cover .. 8 .. 0				300 ..	14 00
Cover .. 10 .. 0				450 ..	18 00
Cover .. 12 .. 6				775 ..	22 00
Cover .. 14 .. 0				1050 ..	28 00
Cover .. 16 .. 0				1150 ..	36 00
Cover .. 18 .. 0				1500 ..	50 00
Cover .. 19 .. 6				1800 ..	80 00
Cover .. 22 .. 0				2000 ..	115 00
Cover .. 24 .. 0				2300 ..	143 00
Cover .. 26 .. 0				2800 ..	195 00
Cover .. 28 .. 0				3500 ..	250 00
Cover .. 30 .. 0				4500 ..	300 00

We will quote on Shingles for these covers, too, when so desired.

FANCY CONICAL COVERS.

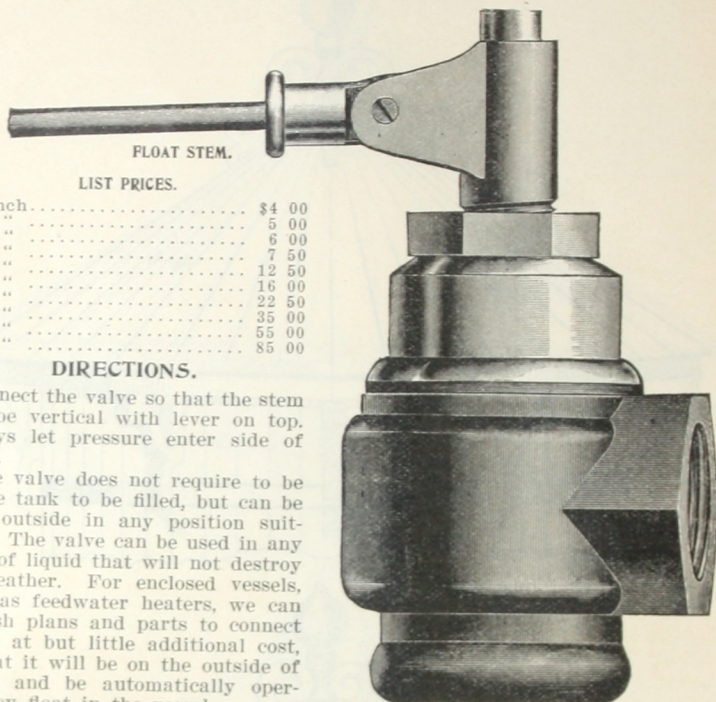


Cover for Tank.	Weight.	Price.	Cover for Tank.	Weight.	Price.
6 ft. 6 in. diam.....	390 lbs.	\$22 00	19 ft. 6 in. diam.....	3400 lbs.	\$110 00
8 " 0 "	500 "	26 00	22 " 0 "	2800 "	147 00
10 " 0 "	700 "	32 00	24 " 0 "	3300 "	186 00
12 " 6 "	1050 "	40 00	26 " 0 "	4000 "	250 00
14 " 0 "	1400 "	52 00	28 " 0 "	5000 "	325 00
16 " 0 "	1800 "	63 00	30 " 0 "	6000 "	450 00
18 " 0 "	2000 "	78 00			

Prices include the Fancy Brackets under eaves of Cover.
We will quote on Shingles for these Covers, too, when so desired.

THE CALDWELL IMPROVED BALANCED FLOAT VALVE.

Send for Circular Giving Full Description.



FLOAT STEM.

LIST PRICES.

$\frac{3}{4}$ inch.....	\$4 00
1 ".....	5 00
1 $\frac{1}{4}$ ".....	6 00
1 $\frac{1}{2}$ ".....	7 50
2 ".....	12 50
2 $\frac{1}{2}$ ".....	16 00
3 ".....	22 50
4 ".....	35 00
5 ".....	55 00
6 ".....	85 00

DIRECTIONS.

Connect the valve so that the stem will be vertical with lever on top. Always let pressure enter side of valve.

The valve does not require to be in the tank to be filled, but can be used outside in any position suitable. The valve can be used in any kind of liquid that will not destroy the leather. For enclosed vessels, such as feedwater heaters, we can furnish plans and parts to connect valve, at but little additional cost, so that it will be on the outside of vessel and be automatically operated by float in the vessel.

The valve cannot be used where there is very much back pressure. When used in fluids that destroy leather, we supply special metallic packing instead.

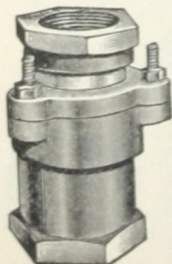
PLACES TO USE THIS VALVE.

On any tank or reservoir where the inflow must keep pace with outflow or usage. Also as a relief valve on discharge pipes of pressure pumps.

SEE PRICE LIST ABOVE.

WRITE FOR DISCOUNTS.

EXPANSION JOINTS.

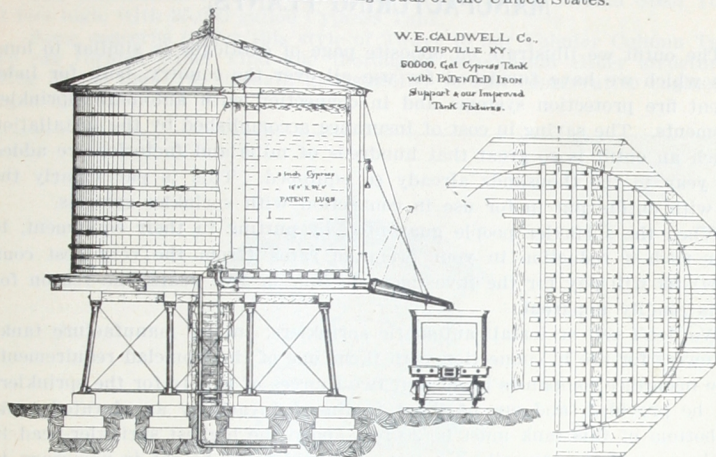


Sizes.....	1 $\frac{1}{2}$	1 $\frac{1}{2}$				
Brass.....	\$4 00	5 00				
Sizes.....	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	5
Iron Body.....	\$7 00	8 00	10 00	14 00	18 00	38 00
Brass Sleeve.....						
Sizes.....	6	7	8	9	10	12
Iron Body.....	\$45 00	70 00	100 00	110 00	160 00	225 00
Brass Sleeve.....						

This is used to take up expansion and contraction in the supply pipe to tank. Without it, tank bottom will be lifted up or pulled down as pipe expands or contracts, and a badly leaking tank will be the result. We make these here and can name a very close price on them.

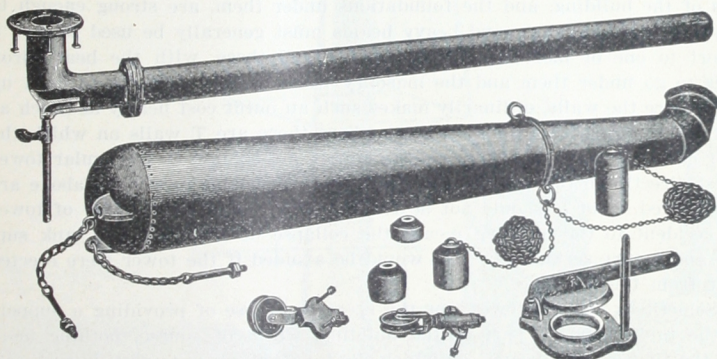
IMPROVED VALVE, OUTLET PIPE, SPOUT, AND FIXTURES.

In use on many of the leading roads of the United States.



Why is Cypress the best wood for Tanks?
Because it does not warp or twist when exposed to the weather.

IMPROVED VALVE, OUTLET PIPE, GALVANIZED SPOUT, AND FIXTURES.



The above cut represents our Improved Tank Fixtures and Tank Outlet Valve, which are strictly frost proof. We furnish these in four sizes—4, 6, 7 and 8 inch.

	4 in.	6 in.	7 in.	8 in.
Fixtures, for 10 to 14 foot diameter Tank.....	\$45 00	\$60 00	\$70 00	\$80 00
" " 16 " " ".....	55 00	65 00	75 00	85 00
" " 20 " " ".....		70 00	80 00	95 00
" " 24 " " ".....		75 00	85 00	100 00
" " 30 " " ".....		82 50	92 50	110 00

Tank Outlet Valves (as per cut); also Tank Float Valves.

For 1 inch pipe.....	\$2 25	For 4 inch pipe.....	\$8 00
" 1 1/4 " " ".....	2 50	" 5 " " ".....	10 00
" 1 1/2 " " ".....	3 00	" 6 " " ".....	12 00
" 2 " " ".....	4 00	" 7 " " ".....	15 00
" 2 1/2 " " ".....	5 00	" 8 " " ".....	18 00
" 3 " " ".....	6 00		

These valves are not threaded unless ordered that way.

Why is Cypress the best wood for Tanks?
Because it has not the knots and defects found in White Pine and other woods.

FIRE PROTECTION AND WATER SUPPLY FOR MANUFACTURING PLANTS.

The outfit we illustrate on opposite page of catalogue is similar to hundreds which we have furnished for use all over the country, both for independent fire protection systems and in connection with automatic sprinkler equipments. The saving in cost of insurance accomplished by the installation of such an outfit is so great that hundreds of mills and factories are added each year to the thousands already so equipped. This is particularly the case with outfits put in for use in connection with sprinkler systems.

When the sprinkler people guarantee, by putting in their equipment, to secure such a reduction in your premium rates (from the very best companies) as will pay for the investment in four or five years, the reason for this is readily apparent.

We don't sell or install automatic sprinklers, but we manufacture tanks and towers for use in connection with them, one of the iron-clad requirements of the insurance companies being that two sources of supply for the sprinklers must be provided, and one of these is almost invariably an elevated tank. The bottom of this tank must be 20 feet above the highest sprinkler-head in the plant, so that ordinarily a tower of considerable height is necessary to give sufficient elevation to the tank. The tank support or tower is nearly always erected above the ground where space will permit, as this plan has many advantages over that of erecting it on the building. Even where the walls of the building, and the foundations under them, are strong enough to carry the load, very long and heavy beams must generally be used to give a support to one or more legs of the tower, and these, with the heavy iron plates to go under them and the masonry work usually required to level up and prepare the walls, ordinarily makes such an outfit cost nearly as much as one built up from the ground—except where there are T walls on which the tower can be supported. Then we can supply a 3-column or triangular tower to rest directly on the wall, so that the expensive beams mentioned above are not required. But it should not be forgotten that with either style of tower any accident to the building means the collapse of the tank and tank support, and a very serious loss that would be avoided if the tower were erected apart from the building.

Sometimes a brick tower, for the special purpose of providing a support for the tank, forms a part of the building, when, of course, nothing more than the timbers or I beams, on which the tank bottom is to rest, is required. In such cases we furnish either the work complete or the tank only.

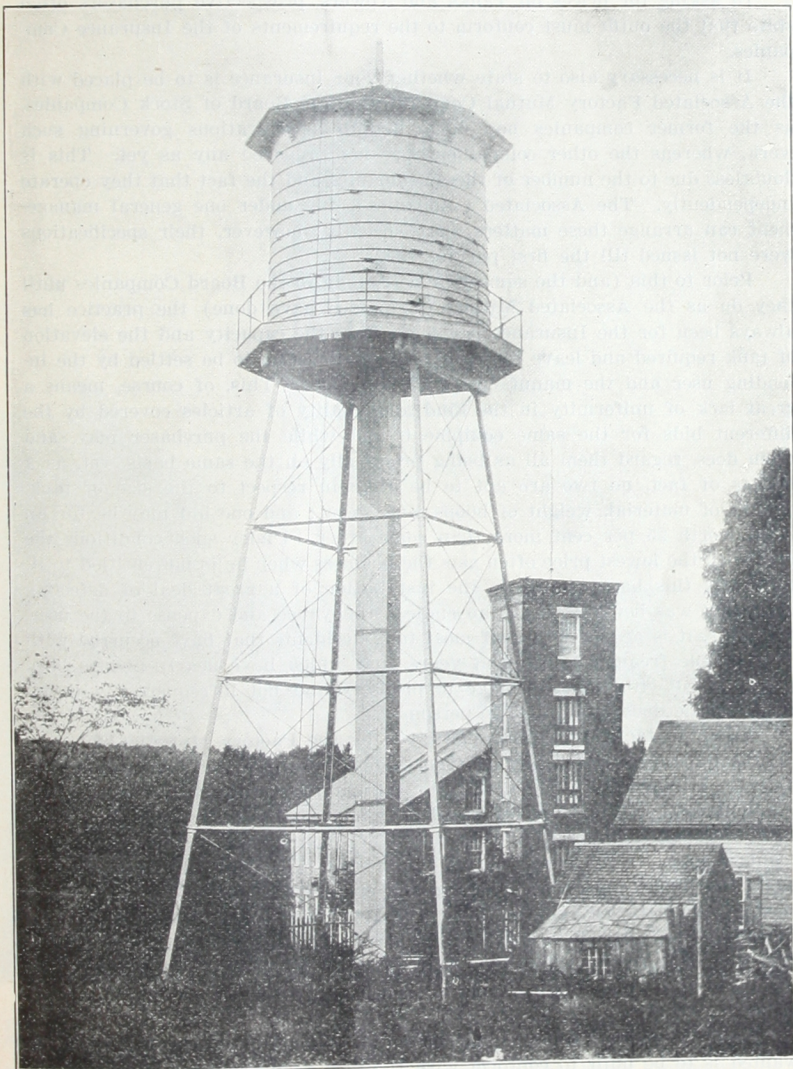
We make a specialty of this work in all its different phases, and our knowledge of this subject is so thorough, and our experience in the business so extended, that we can quite often help a customer with valuable suggestions as to the best plan for him to follow. We have testimonial letters from dozens of the leading firms in as many different lines of business, who will testify to the economy of such a system and the thorough reliability of our work, and shall be glad to refer any prospective customer to these firms, though the fact that our outfits are both endorsed and recommended by the principal insurance companies and the leading automatic sprinkler concerns is about as conclusive evidence on this point as could be desired.

State your requirements and write for prices and plans, and remember we build both tanks and towers of either iron or wood.

OUR ANGLE COLUMN STEEL TOWER AND CYPRESS TANK.

The illustration represents our four-section Angle Column Steel Tower, 51 feet high, with 25,000 gallon Cypress Tank.

Some concerns prefer this style of Tower to our Tubular Column Tower. We can furnish either kind and thoroughly recommend either structure as being of the requisite strength and stability to suit conservative engineering requirements.



The outfit shown above has been in use several years by E. G. Carlton & Sons, Rochdale, Massachusetts, manufacturers of flannels.

Insurance Requirements.

In asking for prices on Tanks and Towers, prospective purchasers often state that the outfit must conform to the requirements of the Insurance Companies.

It is necessary also to state whether your insurance is to be placed with the Associated Factory Mutual Companies or the Board of Stock Companies, as the former companies now have definite specifications governing such work, whereas the other companies have not prepared any as yet. This is doubtless due to the number of these companies and the fact that they operate independently. The Associated Companies being under one general management can arrange these matters more speedily; however, their specifications were not issued till the first part of 1902.

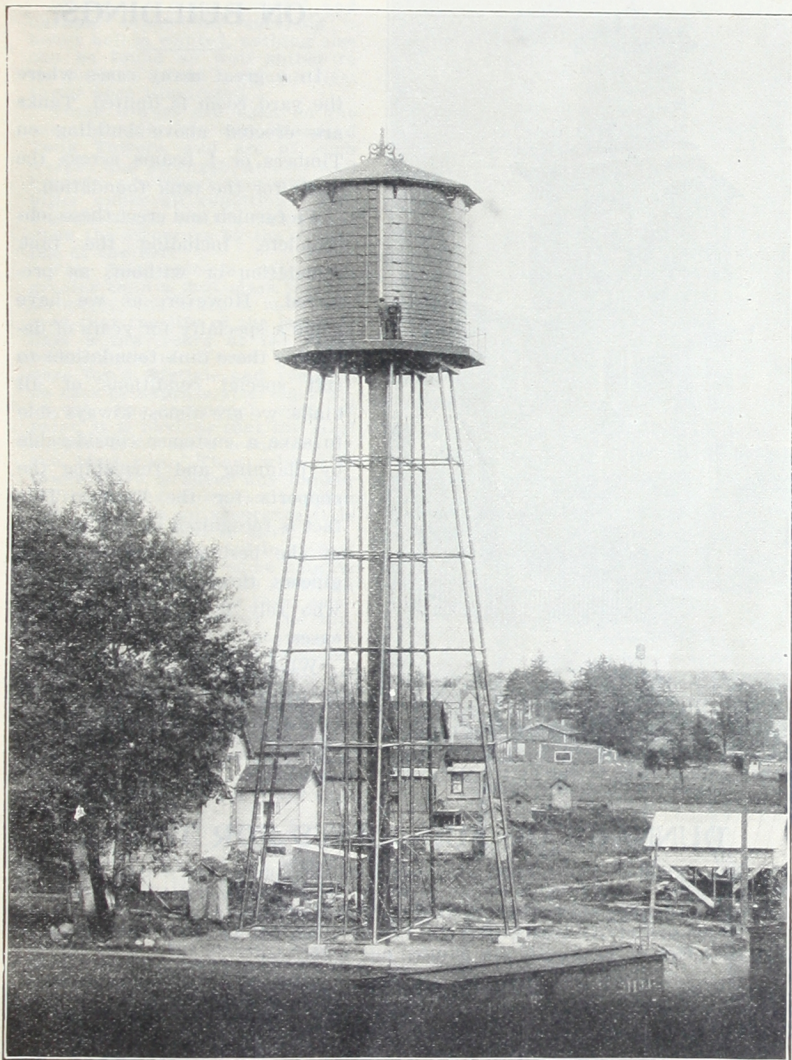
Prior to this (and the same will still apply to the Board Companies until they do as the Associated Mutual Companies have done) the practice has always been for the Insurance people to state the capacity and the elevation of tank required and leave the details of construction to be settled by the intending user and the manufacturer of the goods. This, of course, means a great lack of uniformity in the kind and quality of articles covered by the different bids for the same equipment, and while the purchaser may, and often does, regard them all as being practically on the same basis, yet, as a matter of fact, no two are apt to be alike in respect to the size of tank, quality of material, weight of hoops, and so on; and one bid may be for an outfit worth 25 per cent more than some other. Under such conditions the man with the lowest price often gets the business when he is not entitled to it. Naturally this has resulted in the installation of a great deal of defective work that was bound to prove an endless annoyance and expense to the user. Moreover, it is at the bottom of most tank accidents that have occurred with considerable frequency in recent years, and which have nearly always been accompanied with heavy damage to property and not infrequently with injuries (sometimes fatal ones) to persons.

These, in fact, are the reasons given by the Factory Mutual Companies for the issuance of their specifications, which were prepared from recommendations and suggestions given them by the manufacturers of such goods, and the knowledge their own engineers already had on the subject, and which are very thorough. They cover every detail of construction, besides specifically regulating the dimensions of tanks of different capacities, the thickness and quality of lumber to be used, the size and number of hoops, etc., and they are such as we can recommend where the very best construction is wanted; though they call for a tank which, besides usually being of different dimensions from the regular tank, is of better quality even than what is known in the trade as a "high grade" tank, and such as we furnish as our "Standard Tank."

From the foregoing it is apparent that we should be informed if the tank wanted is to be built to conform with the new requirements of the Factory Mutual Companies, as otherwise we shall continue to supply our Standard Tank, until the Stock Companies get out a set of specifications of their own.

OUTFIT FOR AUTOMATIC SPRINKLER SYSTEM.

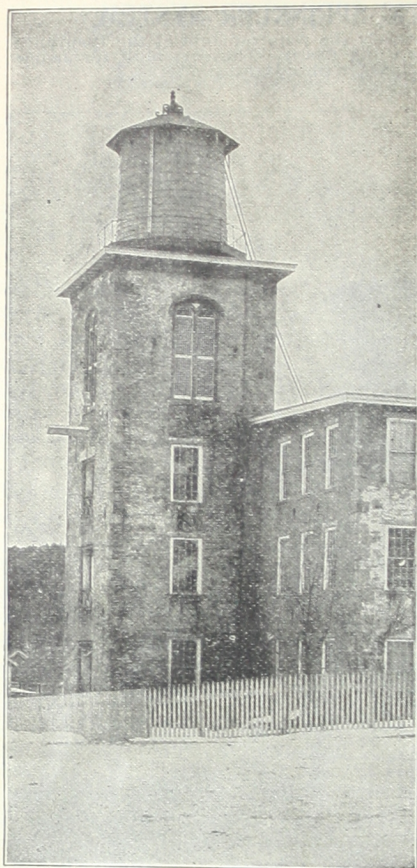
You will run no risk of failing to satisfy the requirements of the Insurance Companies if you put in a Caldwell Tank and Tower. They are built for people who know good work and won't be satisfied with anything else.



The above is one of several outfits we have furnished The International Paper Company. This is a 50,000 gallon Tank on one of our 12-column, 75-foot Steel Towers, in use at their Wood Falls Mill, Brownsville, New York.

The other Tank and Tower in the background is also one of our outfits of this same size, and was erected by us for the Brownsville Paper Company.

We put these up complete, including the pipe and boxing, if desired, and also construct the foundations where customers wish us to do so.



20,000 gallon Tank in use by the Attawaugan Co., Dayville, Conn.

TANKS ON BUILDINGS.

In a great many cases where the yard room is limited, Tanks are erected above building on Timbers or I beams across the walls for the tank foundation.

We furnish and erect these jobs complete, including the tank foundation or without, as preferred. However, as we have made a specialty for years of designing these tank foundations to suit special conditions of all kinds, we are almost always able to save a customer considerable by planning and furnishing the supports for the Tanks. This fact is recognized by any number of the best architects and engineers throughout the country who rely upon us in all such cases.

When asking for bids, send a sketch or plan of the walls where it is proposed to set the Tank.

DUNNAGE OR SUB-JOISTS FOR TANKS.

The weight of Tanks must not come upon the ends of the staves, but must be supported by timbers or chime joists to go under the bottom. Customers are sure of having these timbers fit the Tank if ordered of us.

These are of All-Heart Georgia Yellow Pine, cut to the proper circle to suit diameter of Tank, and are painted one coat.

PRICES ON SUB-JOISTS.

Inside Diam. of Tank.	Weight.	Price.	Inside Diam. of Tank.	Weight.	Price.
4 ft.	155 lbs.	\$1 77	14 ft.	668 lbs.	\$7 44
5 "	165 "	1 94	16 "	785 "	8 77
6 "	176 "	2 22	18 "	1100 "	12 22
7 "	186 "	2 44	20 "	1275 "	14 16
8 "	200 "	2 88	22 "	1524 "	16 94
10 "	376 "	4 22	24 "	1872 "	20 83
12 "	440 "	4 88			

Write for Discounts.

BELL TOWERS.

Where a strong, graceful and durable tower for carrying a heavy bell is wanted, nothing else can be found as well suited to the purpose as our 4-column steel tower here illustrated.

These towers are built on the same design as our Standard Tank Towers, and are of such weight and strength, and so well braced, as to insure thorough stability under all conditions, with due allowance for the strains put upon the structure by the swinging of the bell.

The first cost is not much greater than a first-class wooden structure, and when it is considered that the life of the latter is only a few years at the most, whereas our steel tower will endure for a lifetime and requires no care or expense after once up, except an occasional coat of paint, it is obvious that the steel support is far more economical in the long run. Then with this tower there is never any danger of its taling down or blowing over, which is an assurance it is worth a good deal to have.

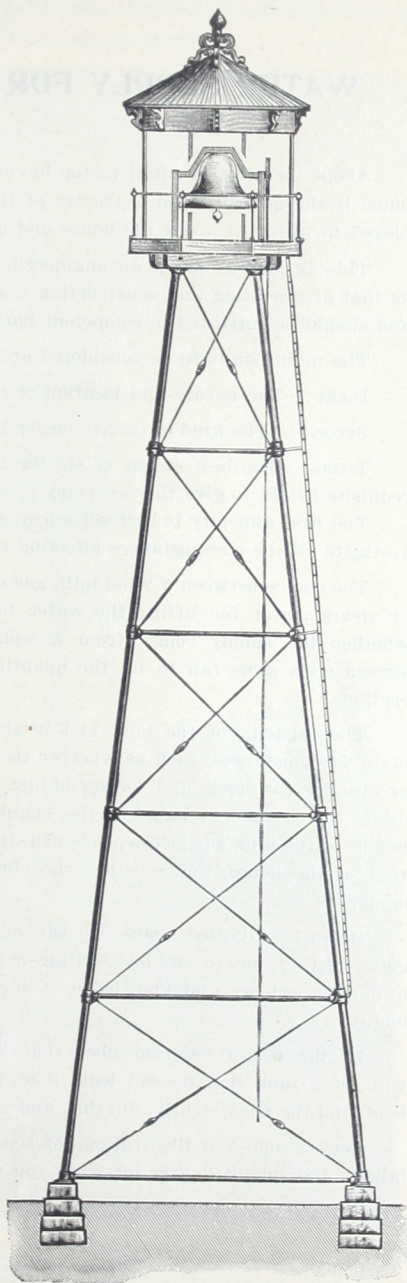
They are constructed in 12-foot sections and of the same heights as our other towers, as given on page 25. We furnish them complete with platform at the top, which is octagonal in shape, and for which a hand-rail is provided. A ladder is also supplied with all towers, as shown in cut.

We also generally supply an ornamental canopy or cover for the bell, with supports for same, but this can be omitted if customer prefers. The frame work for carrying the bell is never furnished by us.

Plans and specifications for the foundations are sent with every tower, and a plan for the erection of the tower and platform. As the structure is built in short sections, which are tied together by socket connections instead of being riveted, the erection can be done by a local mechanic. We fit everything carefully in our shop, so that it will readily go together at destination.

Prices, plans and specifications will be cheerfully sent to any one considering the erection of such a tower. We shall also be glad to give references from customers.

Use prices on page 27—under Class O—for list prices for these Towers, and write for discount; also references.



WATER SUPPLY FOR COUNTRY HOMES.

About the most essential factor in connection with a country or suburban home is the quantity and character of the water supply, and the means employed to utilize it about the house and grounds.

This is just as much an engineering problem (but on a smaller scale) as that of providing and constructing a suitable system for towns and cities, and should be entrusted to competent hands.

The main points to be considered are three in number :

FIRST: The nature and location of the source of supply.

SECOND: The kind of motive power to use for elevating the water.

THIRD: The best means of storing the desired quantity of water at the requisite height to give the necessary pressure.

The first difficulty is best solved by some one on the ground, who can investigate all the circumstances affecting the problem.

The choice between a wind mill, gas engine, hydraulic ram, hot-air engine, or steam power for lifting the water to the tank is determined largely by whether the supply comes from a well, a lake, or river, a spring or a stream with some fall to it; the quantity required, and many other considerations.

The capacity of the tank and height of tower are governed by just as many circumstances, such as whether the water is wanted for just the house, or also for the stock, and for sprinkling, and whether a reserve is desired to allow for probable repairs to the engine or pump or wind mill, etc. The height of the tank support depends principally as to its location relatively with that of the house, and whether the outfit is to be used for fire protection or not.

In such a limited space, we can only point out the difficulties without going further, but to any one writing us, we shall be glad to give the benefit of our experience and knowledge of the subject, on any of the points enumerated.

In the meantime, remember that in putting in a CALDWELL outfit, you get a tank that doesn't leak, a tower that is absolutely safe under the load, and the most sightly, durable, and economical equipment that is built.

Let us send you illustrations of some of the outfits we have erected for others, and submit figures for what you require.

OUTFITS FOR COUNTRY HOMES.

You can have just as efficient a water-works system in the country as in the city if you put in a Caldwell outfit.
They are ornamental as well as substantial and durable.



Mr. George R. Metcalf, President of The Erie Malleable Iron Company, is using the outfit shown in the above illustration, at his country home. The Tank is 10 feet in diameter and 10 feet high, 5,500 gallons capacity, with one of our 51-foot Steel Towers supporting it and the galvanized Wind Mill. The Wind Mill has a 10-foot wheel, and is carried on a 20-foot galvanized wind mill Tower, which is securely fastened to the bottom of the Tank. The Mill is connected to a three-way pump.

We erect these outfits complete in any part of the country.

PATENT SECTIONAL, ROUND COLUMN, STEEL TOWERS.

This cut illustrates our 4-column Patent Steel Tower, which we build in sections, suitable to support Tanks of dimensions up to and including 20 feet in diameter and of 40,000 gallons capacity.

These Towers are strong, durable, and attractive in appearance, and cost much less than steel or iron Towers of any other design, and, when **Durability** and **Strength** are considered, they are **MUCH CHEAPER** than any All-Wooden Structures.

This style of Tower is used extensively in connection with **Automatic Sprinkler Plants** for protection against fire in mills, factories, and other large buildings, as whenever a large storage of water is kept on hand, elevated and ready for use, it **greatly reduces the fire risk** and consequently **lessens the cost of insurance**. They are also largely used by gardeners and florists for irrigation, and also for water supplies for small villages and private grounds.

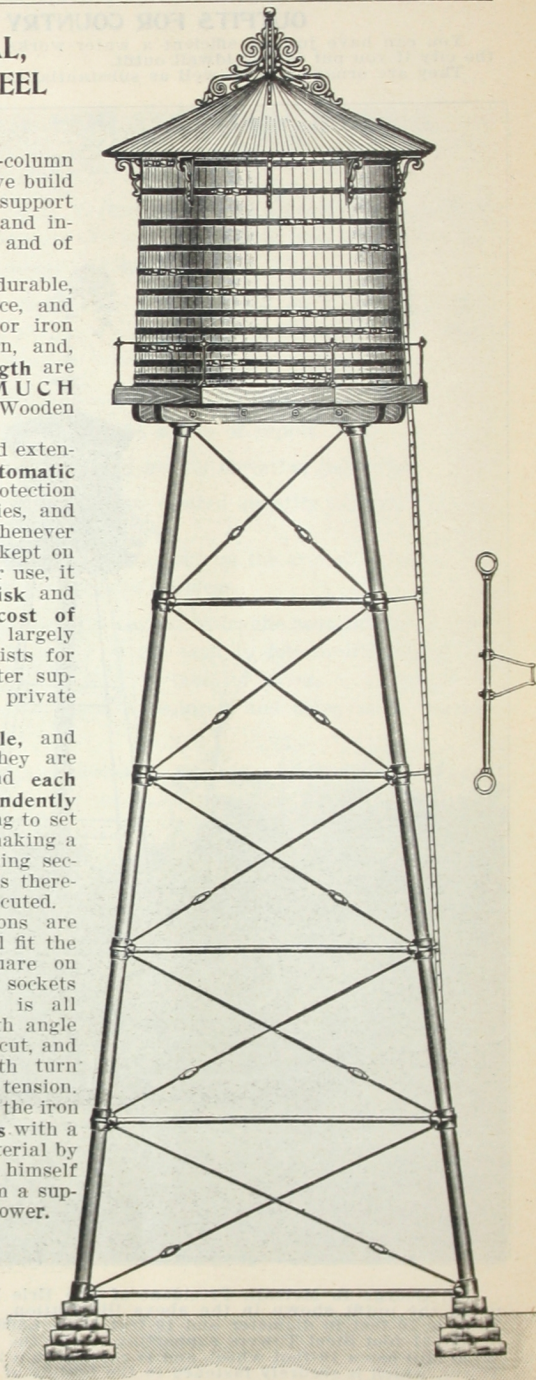
They are **strong, durable**, and **neat in design**, and, as they are built in short sections, and **each section** is set up **independently** and **finished** before beginning to set up the **next section**, thus making a scaffolding for each succeeding section, the work of erection is therefore **easily** and **cheaply** executed.

The iron joint connections are made on angles such as will fit the columns when cut off square on each end and inserted into sockets in the iron couplings. It is all strongly bound together with angle brace rods, as shown in the cut, and all rods are provided with turn buckles for securing proper tension.

When desired, we furnish the iron work alone for **these towers** with a detailed plan and bill of material by which the customer may himself supply the timbers that form a support for the tank at top of tower.

See Prices of Towers and Estimated Cost of Foundations on Opposite Page.

This cut represents our 63-foot Steel Tower and 30,000 gallon Cypress Tank.



4-COLUMN PATENT SECTIONAL STEEL TOWERS.

These List Prices are for both Round Column and Structural Steel Towers.

CLASS O.

Height in Feet.	Capacities of Tanks that Towers will Support.	Shipping Weight Tower Complete.	Cost of Tower Complete.	Shipping Weight of Frost Proofing Material.	Cost of Frost Proofing for Top and Bottom of Tank.	Estimated Cost of Foundations.
15		1,569 lbs.	\$74 25			\$15 00
27		2,113 "	114 00			15 00
39	1,500 gallons	2,713 "	158 50			15 00
51	and	3,418 "	208 65	200 lbs.	\$10 25	15 00
63	less	4,185 "	262 30			15 00
75		5,000 "	318 25			15 00

CLASS A.

15		2,226 lbs.	\$95 75			\$20 00
27	2,000	2,933 "	145 30			20 00
39	to	3,714 "	198 60			20 00
51	3,000	4,525 "	255 15	275 lbs.	\$14 65	20 00
63	gallons	5,436 "	315 45			20 00
75		6,361 "	378 25			20 00

CLASS B.

15		3,301 lbs.	\$130 80			\$25 00
27	4,000	4,317 "	198 35			25 00
39	to	5,419 "	268 15			25 00
51	6,000	6,650 "	344 95	425 lbs.	\$23 20	25 00
63	gallons	7,929 "	425 75			25 00
75		9,263 "	507 80			25 00

CLASS C.

15		4,935 lbs.	\$180 75			\$32 50
27	7,000	6,414 "	272 80			32 50
39	to	8,000 "	371 10			32 50
51	10,000	9,712 "	475 90	850 lbs.	\$40 25	32 50
63	gallons	11,548 "	586 95			32 50
75		13,507 "	704 80			32 50

CLASS D.

15		6,721 lbs.	\$233 80			\$40 00
27	12,000	8,443 "	350 85			40 00
39	to	10,281 "	475 40			40 00
51	15,000	12,238 "	607 20	1,075 lbs.	\$51 45	40 00
63	gallons	14,318 "	746 25			40 00
75		16,518 "	902 55			40 00

CLASS E.

15		8,640 lbs.	\$297 65			\$50 00
27	15,000	10,828 "	436 45			50 00
39	to	13,165 "	583 25			50 00
51	20,000	15,652 "	738 55	1,350 lbs.	\$65 00	50 00
63	gallons	18,296 "	901 85			50 00
75		21,086 "	1,069 40			50 00

CLASS F.

15		10,515 lbs.	\$364 25			\$60 00
27	20,000	13,083 "	528 55			60 00
39	to	15,747 "	701 35			60 00
51	30,000	18,677 "	882 15	1,575 lbs.	\$79 80	60 00
63	gallons	21,865 "	1,071 20			60 00
75		24,939 "	1,268 50			60 00

CLASS G.

15		16,228 lbs.	\$474 15			\$75 00
27	30,000	19,384 "	675 05			75 00
39	to	22,723 "	891 85			75 00
51	40,000	26,243 "	1,115 05	2,000 lbs.	\$98 20	75 00
63	gallons	29,949 "	1,348 60			75 00
75		33,850 "	1,592 15			75 00

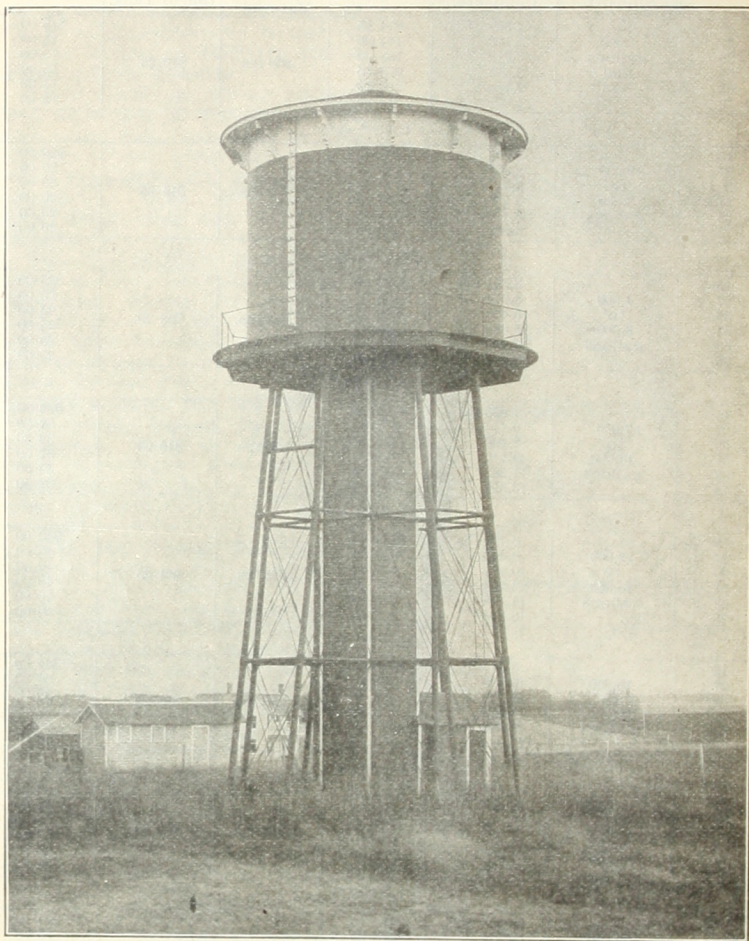
The heights above given are standard, and are from the ground or grade line to the bottom of the tank. Note the shipping weights given. We guarantee them to be correct, except our Angle Column or Structural Steel Towers weigh a little more.

The prices of Towers include the Foundation at top of Tower for Tank, with extension for Octagonal Walk-way with Iron Hand Rail and with Iron Ladder, as shown in cut on opposite page.

These Towers take a very low rate of freight. Write for delivered prices.
We also build these Towers in heights of 87 and 100 feet when desired.

STEEL TANK AND STEEL TOWER.

Used for city water-works at Remsen, Iowa. The tank is of 50,000 gallons capacity on one of our 39-foot tubular column steel towers.



We build steel Tanks as well as wood.

We furnish a great many of our Towers with steel tanks of the type shown in the illustration.

We also build a Hemispherical Bottom Steel Tank with latticed column steel tower, as illustrated on inside front cover page.

Write for prices of either kind.

TWELVE-COLUMN PATENT SECTIONAL STEEL TOWERS.

These List Prices are for both Round Column and Structural Steel Towers.

CLASS X.

Height.	Capacities of Tanks Towers Will Support.	Weight Complete.	Cost Complete.	Weight Frost Proofing Material.	Cost of Frost Proofing for Top and Bottom of Tank.
27 feet.		20,700 lbs.	\$851 25		
39 "		25,700 "	1,140 40		
51 "	40,000	30,825 "	1,435 30		
63 "	to	36,075 "	1,737 00	2,450 lbs.	\$110 00
75 "	50,000	41,430 "	2,044 65		
87 "	gallons.	46,925 "	2,359 05		
100 "		52,525 "	2,680 15		

CLASS Y.

27 feet.		26,360 lbs.	\$1,090 80		
39 "		32,760 "	1,462 70		
51 "	50,000	39,300 "	1,842 05		
63 "	to	46,000 "	2,228 85	2,950 lbs.	\$132 00
75 "	65,000	52,800 "	2,623 75		
87 "	gallons.	59,800 "	3,026 30		
100 "		67,000 "	3,437 80		

CLASS Z.

27 feet.		28,750 lbs.	\$1,256 05		
39 "		36,000 "	1,673 95		
51 "	65,000	43,400 "	2,119 75		
63 "	to	51,000 "	2,572 30	2,950 lbs.	\$132 00
75 "	80,000	58,650 "	3,034 85		
87 "	gallons.	66,400 "	3,501 40		
100 "		74,500 "	3,980 50		

CLASS W.

27 feet.		37,900 lbs.	\$1,762 35		
39 "		47,000 "	2,340 90		
51 "	80,000	56,000 "	2,928 45		
63 "	to	65,200 "	3,526 00	3,500 lbs.	\$160 00
75 "	100,000	74,600 "	4,133 55		
87 "	gallons.	84,250 "	4,748 10		
100 "		94,300 "	5,373 20		

The heights above given are standard, and are from the ground or grade-line to the bottom of the Tank. Note the shipping weights given. We guarantee them to be correct, except our Angle Column or Structural Steel Towers weigh a little more.

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These Towers take a very low rate of freight. Write for delivered prices.

WATER-WORKS OUTFIT.

At Orange City, Iowa.



JOHN E. ORR
ANTHONY TE PASKE

OFFICE AT
ORANGE CITY, IOWA.
SIOUX CENTER, IOWA.

ORR & TE PASKE,

ATTORNEYS-AT-LAW.

MERCANTILE COLLECTIONS,
MORTGAGE FORECLOSURES,
PROBATE MATTERS,
GENERAL PRACTICE.

Orange City, Iowa, Feb. 7th, 1901.

W. E. Caldwell Co., Louisville, Ky.

Dear Sirs:---About four years ago our City purchased from your Company an 87 foot Steel Water Tower and 65,000 gallon Tank which now forms a part of our City water system. On the second day of July, 1900, a cyclone unroofed our City Hall, hurling a large portion of the roof against the Steel Tower striking it at the second section from the bottom. The portion of the roof striking the Tower was smashed into kindling wood, a large timber about ten inches square being broken in two where it struck one of the tubular uprights. Nevertheless the Tower was not moved from its base in the least, nor thrown out of line in any way, the damage to it being but slight. The Tower is strongly constructed, pleasing in appearance, and the people here believe it to be the best one on the market.

Very truly yours,

John E Orr
Mayor.

WATER=WORKS.

The adaptability of the elevated tank system for water works for villages and towns of a population of 25,000 and less, has long been recognized, and for this purpose there is nothing else equal to our **Patent Sectional Steel Tower** with either a Cypress or Steel Tank. Such an outfit makes a handsome appearance, will last indefinitely, and is certain to give the best of satisfaction, as hundreds of our customers will testify.

We make a specialty of furnishing water works jobs, and are pleased to give any information in this connection desired by towns purposing to install complete water works, or outfits for fire protection only.

Write for estimates and cuts.

WE HAVE INSTALLED PLANTS IN

ALABAMA.

Columbiana,
Marion,
Uniontown.

ARKANSAS.

Forrest City.
Warren,
Dermott.

COLORADO.

Eaton.

CONNECTICUT.

Thompson.

DELAWARE.

Frederica.

FLORIDA.

Bartow,
Clearwater Harbor,
Jasper.

GEORGIA.

Baxley,
Eastman.

ILLINOIS.

Breese,
Ladd,
LaHarpe,
Lebanon,
Loraine,
Mendon,
Morrisonville,
Plymouth,
Waynesville,
Weldon.

INDIANA.

Converse,
Royal Center.

IOWA.

Doon,
Granville,
Kingsley,
Orange City,
Remsen,
Rock Valley,
Sheldon,
Vail,
Waverly,
Clearance,

KANSAS.

Girard.

KENTUCKY.

Adairsville,
Shawnee Park,
Louisville,
Middlesborough,
Princeton,
Danville.

LOUISIANA.

Bastrop,
Mer Rouge,
Plaquemine.

MAINE.

York Beach.

MARYLAND.

Havre-De-Grace,
Blue Ridge Summit,
Princess Anne,
Mt. Washington.

MICHIGAN.

Sand Beach.

MISSISSIPPI.

Bolton,
Indianola,
Scranton,
Shuqualak.

MISSOURI.

Louisiana.

NEW JERSEY.

Allenhurst,
Lindenwold,
North Spring Lake,
Pitman Grove,
Westwood,
Cape May Court
House,
Pitman.

NEW YORK.

Barren Island,
Haines' Falls.

NEBRASKA.

Elmwood,
Rushville.

NEVADA.

Reno.

NORTH CAROLINA.

Aberdeen,
Concord.

OHIO.

Continental,
Kings Mills,
Marice City,
Oakwood.

OKLAHOMA TERRITORY.

El Reno.

PENNSYLVANIA.

Delta,
Ephrata,
Linwood,
Osborn,
Wyalusing,
Beaver Falls,
Rochester.

RHODE ISLAND.

Shawomet Beach.

SOUTH CAROLINA.

Pelzer.

TENNESSEE.

Brownsville,
Collierville,
McKenzie,
Manchester,
Somerville.

TEXAS.

Llano,
Shiner,
Corsicana.

VIRGINIA.

Cape Charles,
Coeburn,
Onancock,
Waynesboro.

WEST VIRGINIA.

Charleston,
Lewisburg.

WISCONSIN.

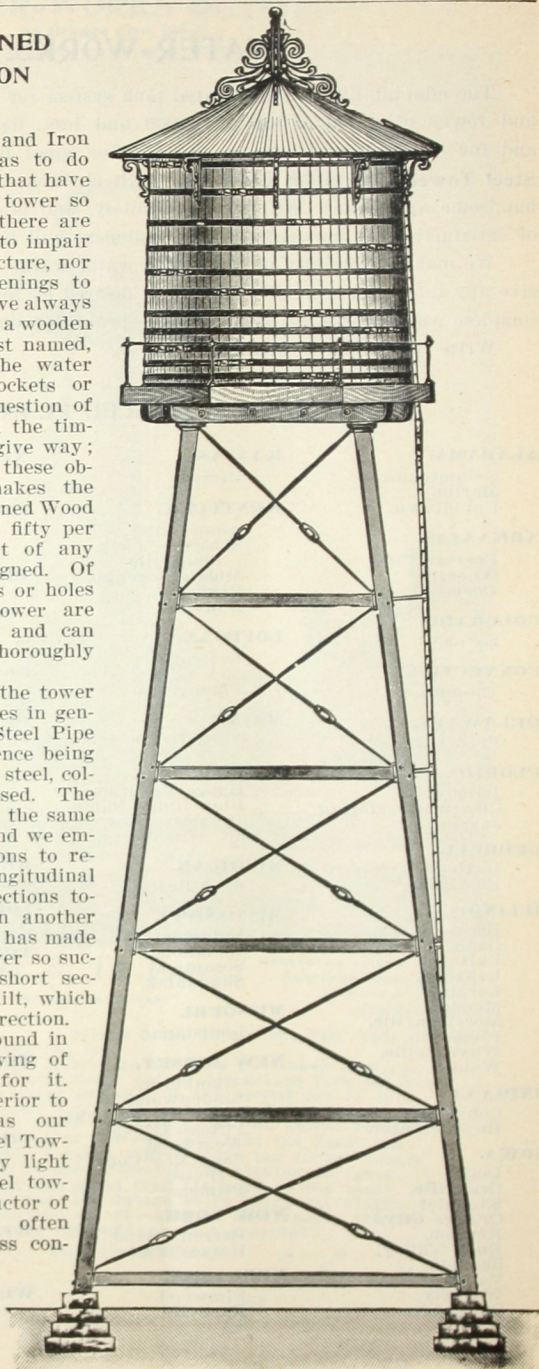
Monroe.

SPECIAL COMBINED WOOD AND IRON TOWERS.

This Combined Wood and Iron Tower is designed so as to do away with the features that have always made a wooden tower so objectionable; that is, there are no mortises and tenons to impair the strength of the structure, nor any brace seats or openings to collect water. These have always been the weak points in a wooden tower, especially the last named, as, of course, where the water could lodge in the sockets or brace seats it was a question of only a short time until the timber would rot out and give way; and an elimination of these objectionable features makes the durability of our Combined Wood and Iron Towers fully fifty per cent. greater than that of any wood tower yet designed. Of course, with no notches or holes the surfaces of the tower are smooth and unbroken, and can therefore be kept thoroughly painted throughout.

It will be seen that the tower is built on the same lines in general as our Sectional Steel Pipe Tower, the only difference being that wooden, instead of steel, columns and struts are used. The sway-bracing is of iron, the same as in our steel tower, and we employ cast-iron connections to receive the struts or longitudinal ties which bind the sections together. We also retain another distinctive feature that has made our Sectional Steel Tower so successful, which is the short sections in which it is built, which minimizes the cost of erection.

The tower will be found in every way fully deserving of the claim we make for it, that it is as much superior to any wooden tower as our Standard Patented Steel Towers are to the ordinary light iron or galvanized steel towers, with scarcely no factor of safety, that are so often palmed off as first-class constructions.



COMBINED WOOD AND IRON TOWERS.

CLASS O.

Height in Feet.	Capacities of Tanks Towers will Support.	Shipping Weight Iron Work.	Cost Iron Work.	Shipping Weight Tower Complete.	Cost of Tower Complete.	Prices of Plans, Specifications and Bills of Material Alone.	Estimated Cost of Foundations.
15		624 lbs.	\$50 01	2,256 lbs.	\$80 03	\$3 75	\$15 00
27	1,500	945 "	79 08	3,443 "	125 50	5 75	15 00
39	gallons	1,286 "	108 63	4,630 "	171 28	7 75	15 00
51	and	1,646 "	139 53	5,926 "	220 10	10 00	15 00
63	less	2,026 "	171 90	7,530 "	275 95	12 50	15 00
75		2,418 "	205 18	9,290 "	335 45	16 00	15 00

CLASS A.

15		637 lbs.	\$51 56	3,041 lbs.	\$96 52	\$5 00	\$20 00
27	2,000	960 "	80 53	4,230 "	141 95	7 50	20 00
39	to	1,300 "	110 18	5,416 "	182 82	10 00	20 00
51	3,000	1,660 "	141 33	6,712 "	236 90	12 50	20 00
63	gallons	2,042 "	173 55	8,318 "	292 60	15 00	20 00
75		2,434 "	206 78	10,078 "	352 05	20 00	20 00

CLASS B.

15		669 lbs.	\$54 41	3,944 lbs.	\$115 43	\$6 75	\$25 00
27	4,000	999 "	83 51	5,138 "	161 10	8 75	25 00
39	to	1,351 "	113 65	6,378 "	208 25	11 00	25 00
51	6,000	1,709 "	144 83	7,672 "	257 36	13 50	25 00
63	gallons	2,100 "	178 03	9,335 "	314 95	16 50	25 00
75		2,501 "	211 91	11,128 "	375 50	20 00	25 00

CLASS C.

15		845 lbs.	\$68 79	5,795 lbs.	\$161 13	\$7 50	\$32 50
27	7,000	1,288 "	107 01	7,516 "	223 88	10 00	32 50
39	to	1,750 "	146 06	9,259 "	287 45	12 50	32 50
51	10,000	2,230 "	187 04	11,401 "	360 30	15 00	32 50
63	gallons	2,755 "	230 89	13,615 "	436 53	22 50	32 50
75		3,410 "	277 01	16,172 "	519 10	25 00	32 50

CLASS D.

15		986 lbs.	\$80 38	7,449 lbs.	\$196 28	\$10 00	\$40 00
27	12,000	1,469 "	122 48	10,088 "	278 73	12 50	40 00
39	to	1,979 "	166 25	12,666 "	363 15	15 00	40 00
51	15,000	2,502 "	210 90	15,307 "	448 38	18 00	40 00
63	gallons	3,068 "	258 60	18,210 "	540 88	23 00	40 00
75		3,668 "	309 03	21,450 "	641 90	30 00	40 00

CLASS E.

15		1,173 lbs.	\$94 85	9,297 lbs.	\$247 33	\$12 50	\$50 00
27	15,000	1,748 "	144 08	12,119 "	339 63	15 00	50 00
39	to	2,347 "	194 83	14,300 "	429 65	17 50	50 00
51	20,000	2,994 "	248 90	17,676 "	527 08	22 50	50 00
63	gallons	3,684 "	306 13	20,919 "	633 23	28 00	50 00
75		4,392 "	364 53	24,147 "	739 93	35 50	50 00

CLASS F.

15		1,417 lbs.	\$114 23	12,390 lbs.	\$321 65	\$17 00	\$60 00
27	25,000	2,091 "	171 80	15,947 "	435 80	20 00	60 00
39	to	2,731 "	232 00	19,639 "	553 05	23 00	60 00
51	30,000	3,570 "	295 90	23,570 "	677 68	27 50	60 00
63	gallons	4,345 "	360 30	27,609 "	804 63	35 00	60 00
75		5,184 "	429 55	32,384 "	949 33	42 50	60 00

The heights above given are standard, and are from the ground or grade-line to the bottom of the Tank. Note the shipping weights given. We guarantee them to be correct.

The prices of Towers include the Foundation at top of Tower for Tank, with extension for Octagonal Walk-way with Iron Hand-rail and with Iron Ladder, as shown in cut.

Write for delivered prices.

We also build these Towers in heights of 87 and 100 feet when desired.

SEE CUT ON OPPOSITE PAGE.

ALL WOOD FRAMED TOWERS.

On the next page we give prices of All-Wood Towers illustrated by this cut.

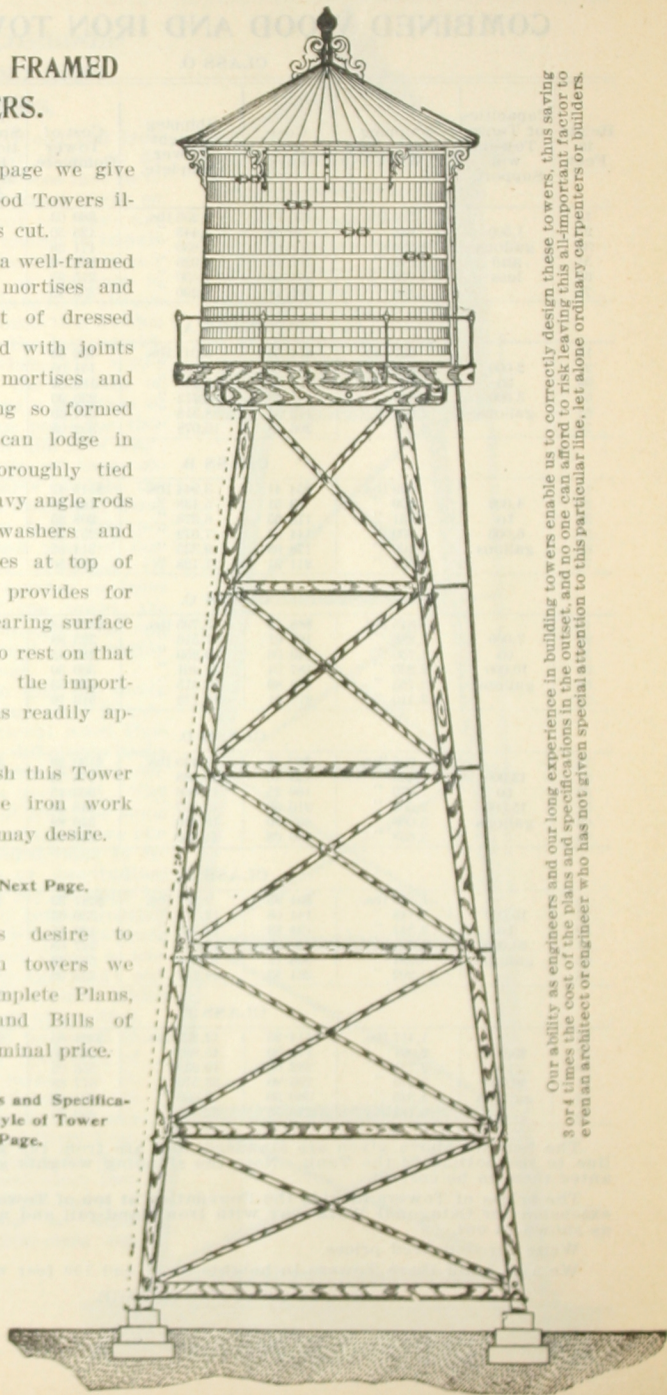
This Tower is a well-framed structure, with mortises and tenons, all built of dressed heart timber and with joints well made, all mortises and brace seats being so formed that no water can lodge in them. It is thoroughly tied together with heavy angle rods and cast-iron washers and heavy cast plates at top of columns, which provides for nearly double bearing surface for the girders to rest on that carry the tank, the importance of which is readily apparent.

We will furnish this Tower complete, or the iron work only, as parties may desire.

See Prices on Next Page.

When parties desire to build their own towers we will furnish complete Plans, Specifications, and Bills of Material at a nominal price.

See "Prices of Plans and Specifications" of this Style of Tower on Next Page.



Our ability as engineers and our long experience in building towers enable us to correctly design these towers, thus saving 3 or 4 times the cost of the plans and specifications in the outset, and no one can afford to risk leaving this all-important factor to even an architect or engineer who has not given special attention to this particular line, let alone ordinary carpenters or builders.

ALL=WOODEN TOWERS.

[See Cut on Preceding Page.]

CLASS O.

Height in Feet.	Capacities of Tanks Towers will Support.	Shipping Weight Iron Work.	Cost Iron Work.	Shipping Weight Tower, Complete.	Cost of Tower Complete.	Prices of Plans, Specifica- tions and Bills of Material Alone.	Estimated Cost of Founda- tions.
15		389 lbs.	\$30 08	2,396 lbs.	\$67 72	\$3 75	\$15 00
27	1,500	490 "	39 16	3,639 "	98 80	5 75	15 00
39	gallons	612 "	49 88	5,223 "	137 30	7 75	15 00
51	and	734 "	60 18	6,941 "	178 07	10 00	15 00
63	less	884 "	73 52	9,303 "	234 17	12 50	15 00
75		1,033 "	86 78	11,344 "	283 20	16 00	15 00

CLASS A.

15		412 lbs.	\$32 56	3,244 lbs.	\$85 57	\$5 00	\$20 00
27	2,000	532 "	42 10	4,494 "	116 92	7 50	20 00
39	to	646 "	54 66	6,070 "	157 22	10 00	20 00
51	3,000	772 "	63 98	7,720 "	195 42	12 50	20 00
63	gallons	920 "	77 38	9,889 "	247 65	15 00	20 00
75		1,082 "	91 08	12,206 "	302 67	20 00	20 00

CLASS B.

15		435 lbs.	\$35 33	4,147 lbs.	\$104 40	\$6 75	\$25 00
27	4,000	560 "	45 01	5,455 "	137 08	8 75	25 00
39	to	693 "	56 18	7,196 "	179 08	11 00	25 00
51	6,000	823 "	67 48	8,802 "	218 68	13 50	25 00
63	gallons	983 "	83 28	11,049 "	274 50	16 50	25 00
75		1,142 "	95 68	13,513 "	331 05	20 00	25 00

CLASS C.

15		572 lbs.	\$44 91	5,945 lbs.	\$145 38	\$7 50	\$32 50
27	7,000	723 "	57 86	7,848 "	191 90	10 00	32 50
39	to	908 "	73 31	10,211 "	249 10	12 50	32 50
51	10,000	1,094 "	90 09	12,749 "	302 70	15 00	32 50
63	gallons	1,331 "	110 89	15,611 "	382 08	22 50	32 50
75		1,561 "	130 41	18,481 "	452 20	25 00	32 50

CLASS D.

15		683 lbs.	\$53 56	7,650 lbs.	\$179 15	\$10 00	\$40 00
27	12,000	847 "	67 58	10,310 "	241 00	12 50	40 00
39	to	1,061 "	86 48	13,491 "	316 78	15 00	40 00
51	15,000	1,264 "	104 40	17,222 "	378 33	18 00	40 00
63	gallons	1,520 "	127 38	21,279 "	498 15	23 00	40 00
75		1,811 "	151 78	25,458 "	597 08	30 00	40 00

CLASS E.

15		796 lbs.	\$62 28	9,568 lbs.	\$227 18	\$12 50	\$50 00
27	15,000	966 "	76 86	12,162 "	288 20	15 00	50 00
39	to	1,197 "	98 43	15,912 "	377 23	17 50	50 00
51	20,000	1,403 "	116 28	19,358 "	457 18	22 50	50 00
63	gallons	1,768 "	140 18	23,620 "	555 78	28 00	50 00
75		1,925 "	165 26	27,965 "	655 38	35 50	50 00

CLASS F.

15		988 lbs.	\$76 96	13,053 lbs.	\$306 63	\$17 00	\$60 00
27	20,000	1,213 "	95 70	17,085 "	398 35	20 00	60 00
39	to	1,532 "	124 70	21,757 "	510 78	23 00	60 00
51	25,000	1,806 "	148 15	26,576 "	621 35	27 50	60 00
63	gallons	2,166 "	180 13	32,057 "	751 53	35 00	60 00
75		2,484 "	206 48	37,590 "	877 75	42 50	60 00

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SEE CUT ON PRECEDING PAGE.

TESTIMONY OF VALUE.

It is easy enough for a concern to assert and protest that the goods sold by it, are the very best of that particular kind that is or can be produced—that they are so far superior to those of their competitors as to make comparisons odious—to the latter—that they are, in a word, without flaw or defect or blemish of any kind, and such statements are only too common. But they carry very little weight with any one of even average intelligence, as the claims of one concern are worthy of just as much credence as any other.

If, however, the manufacturer is able to show that nearly all of the best and biggest and most widely known firms in the country have adopted and are using his goods, then he is furnishing you the strongest kind of evidence to establish his claims of superiority.

Apropos of which, we present a list of the names of a few of our thousands of customers, which is significant.

American Agricultural Chemical Co.	R. M. Hoe & Co.
American Axe & Tool Co.	Holt Mills—Textiles.
American Car & Foundry Co.	Ingersoll-Sergeant Drill Co.
American Chemical & Spirit Co.	International Paper Co.
American Cotton Oil Co.	Laflin & Rand Powder Co.
American Hide & Leather Co.	Lake Superior Powder Co.
American Hominy Co.	Louisville & Nashville R. R. Co.
American Locomotive Co.	Macbeth-Evans Co.—Lamp Chimneys.
American Oak Leather Co.	The Marsden Co.
American Smelting & Refining Co.	McCormick Harvesting Machine Co.
American Steel Castings Co.	National Biscuit Co.
American Steel & Wire Co.	National & Providence Worsted Mills.
American Straw Board Co.	National Starch Mfg. Co.
American Thread Co.	National Tube Co.
American Water Works & Guarantee Co.	N. Y. Continental Jewell Filtration Co.
American Woolen Co.	New York Mills—Textiles.
American Writing Paper Co.	Pabst Brewing Co.
Armstrong Cork Co.	Pennsylvania Salt Mfg. Co.
Automobile & Cycle Parts Co.	Pfister & Vogel Co.
J. G. Brill Co.	Pittsburg Plate Glass Co.
James B. Haggin.	Plant System.
James Warren, President Allis-Chalmers Steel Co.	Procter & Gamble Co.
Canada Sugar Refining Co.	Republic Iron & Steel Co.
Canadian Pacific Railroad Co.	R. J. Reynolds Tobacco Co.
Carnegie Steel Co.	Rogers Silver Plate Co.
City of Charleston, S. C.	Wm. B. Scaife & Sons Co.
City of Mobile, Alabama.	Simmons Hardware Co.
Deering Harvester Co.	The Solvay Process Co.
Dueber-Hampden Watch Works.	Southern Cotton Oil Co.
E. & I. Du Pont Co.	Standard Oil Co.
Eastman Kodak Co.	State of Nevada.
Estate of Hiram Sibley.	State of South Carolina.
E. B. Eddy Co.—Canada.	State of Tennessee.
Fairbanks, Morse & Co.	Swift & Company.
Knabe Piano Co.	Wm. R. Trigg Ship Building Works.
Thomas A. Edison Storage Battery Co.	United Box, Board & Paper Co.
Senator Geo. F. Edmunds.	U. S. Glass Co.
Florida East Coast Line.	U. S. Lithograph Co.
General Fire Extinguisher Co.	U. S. Playing Card Co.
Gutta Percha Rubber & Mfg. Co.	United States Government.
The Herreshoff Mfg. Co. (Builders of the Vigilant and other Cup Defenders).	Wilkes-Barre Lace Mfg. Co.
	Virginia & Carolina Chemical Co.
	Westinghouse, Church, Kerr & Co.
	Westinghouse Electric & Mfg. Co.

WRITE FOR BOOKLET OF FACSIMILE TESTIMONIAL LETTERS.

PLANS AND SPECIFICATIONS.

For the benefit of those concerns that prefer to build their own towers and are situated so they can do so advantageously, that is, buy the timbers required and have them framed for less than they would cost with freight added if purchased from us, we would be glad to supply complete working plans and bills of material for either our special Wood and Iron Tower illustrated on page 32 or our All-Wood Tower illustrated on page 34. This will insure the design of the tower being not only correct (which is, of course, of the first and greatest importance), but incomparably superior to the old-style wooden tower with its defective features mentioned in the comparison made elsewhere between our special Wood and Iron tower and the old-style wooden tower.

There is another advantage in using our plans, which is a certainty of having no surplus material in the construction. The ordinary run of carpenters and mechanics have not the technical knowledge necessary to enable them to correctly design a structure of this kind, and, in fact, are apt to lose sight of the great weight contained in a comparatively small volume of water, 5,000 gallons of which, for instance, weigh 40,000 pounds, or more than 20 tons, and 50,000 gallons more than 200 tons. And to be on the safe side they generally get twenty to twenty-five per cent. more material in the tower than is required by the best practice, thereby unnecessarily increasing the cost that much to the purchaser. So the cost of our plans is nearly always many times offset by the cost of material saved when the tower is built from our plans.

Of course, in purchasing the complete tower of us, the customer is assured of getting the best material throughout, and material that is thoroughly finished, all ready to go together, which naturally relieves him of all trouble and worry in this connection, a consideration of no little importance.

We will also furnish the iron work only of these towers where desired, letting the customer supply his own timbers or woodwork. Where we do this we will make no charge for the plans and bills of material.

EXPLANATORY.

Prices are subject to change without notice.

Terms are net cash, 30 days from date of shipment, unless otherwise specified.

Where we erect either tanks or towers, final payment is due upon completion of the work, or within not more than 15 days thereafter at the utmost.

If customers do the erecting, we require payment to be made in the time agreed upon, whether the erection has been completed or not.

Our responsibility for delivery ceases when we secure a signed bill of lading from the Transportation Company for goods received in good order.

Customers must look to the R. R. Co. for any loss due to delay in delivery or damage sustained in transit. We are always glad to file claims for them when desired.

Where we are ordered to duplicate lost or delayed shipments, we do so only on the condition that both original and duplicate shipments are paid for on the basis of our regular terms.

No claims for repairs of any kind, or for the replacing of materials, will be allowed unless our consent is first obtained.

Claims must be made within 15 days after the receipt of the goods.

All Galvanized Steel Tanks that we ship set up, are carefully tested to see that they are water-tight before being shipped, and purchasers are cautioned to examine such tanks thoroughly before accepting them from the Railway Company, as we can not allow any charges for resoldering them, or repairing of any other kind.

Wood Tanks are shipped knocked down and well crated; where requested, we send suggestions explaining how erection should be done.

Receiving a tank or tower and setting it up constitutes an acceptance of it.

We cannot accept the return of any goods, as all tanks, towers, etc., are made up especially for each order.

When goods are ordered without details being specified, we will furnish what we think is suitable, and at our regular prevailing prices.

All contracts for the completion of work in a specified time are subject to fires, strikes, delays of Transportation Companies, breakage of machinery, accidents, or other causes beyond our control.

